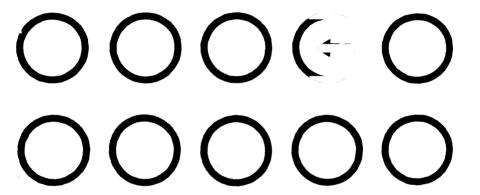
RESEARCH ABSTRACTS





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PREFACE

The Examination Research Cell (ERC) of the Association of Indian Universities has been from time to time investigating into various fundamental issues of university examinations like Grading. Test and Item Analysis, Practical Examinations, Continuous Internal Assessment to mention only a few. Results of these research projects have already been reported in the form of Monographs, some of which have been revised in subsequent editions to include experiences of teachers/colleges/universities.

At the same time, a few research studies have been conducted and it was felt that a series of Research Abstracts should be brought out incorporating the results of such studies. The present Research Abstract is fourth in the series and it is exclusively to report the Examination result of test and item analysis of a test given by National Academy of Medical Sciences in their MNAMS Part I Examinations. What is reported here is an analysis of an objective type test of 150 items taken by 221 candidates.

A very comprehensive computer programme has been used to mark the scripts, to perform statistical analysis of the test and of various items and is also included in this Research Abstract.

It is hoped that teachers, examiners and other examining bodies will find this Research Abstract useful.

Constructive suggestions will be most welcome.

New Delhi 10th November, 1981

V. Natarajan

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A special word of thanks is given to the National Academy of Medical Sciences & National Board of Examination, who supplied data for analysis and to Computronics India for processing the data through their computer.

A COMPREHENSIVE STATISTICAL ANALYSIS OF A SAMPLE OBJECTIVE TYPE TEST.

USE OF OBJECTIVE TESTS

INTRODUCTION

Objective type tests in our country are increasingly being used to serve different purposes in different situations. A beginning of it was seen in class room tests by several teachers with the main purpose of checking learning and diagnosing the weaknesses of it. Soon its use has been extended as a part of summative evaluation to check on the levels of achievement at the end of a course of study. Very recently we have seen objective type tests being used in admission and selection type tests.

While the attempts to use objective forms of assessment, have not taken roots yet, many achievement tests purely of objective forms are used particularly by organisations wanting to select a few among the many achievers of the previous qualifying courses.

In the present context therefore, this objective type test used by the National Academy of Nedical Sciences for their Part-I, NAM'S examination, is a test of attainment or proficiency in the subject of medicine, being acquired by the candidates in their previous qualifying courses. Of course the content and the intellectual abilities and skills associated with this content were all sorted out by a group of experienced and expert item writers, before assembling a collection of nearly thousand multiple-choice type items at the end of a 2 week long workshop to produce such items. One hundred and fifty of these were selected on the basis of the table of specifications and put into this test.

This test therefore deals with a certain body of contents and related intellectual abilities involved in this. The main purpose of this test is to discriminate between the more able and less able candidates on the basis of performance in the test. It is therefore imperative that the items used in the test should have a high degree of discrimination.

There are two aspects of the whole test that need to be elaborated. One of these is the "validity" of the test. By this it is meant that the items used in the test measure the identified abilities in different areas of content in a balanced manner. This is done through a table of specifications or a blue print that specifies weightages to different areas of content and also weightages to different abilities. This largely accounts for the content validity of the test. The second of these is "reliability". By this, it is meant that the test measures consistently whatever it measures. In other words, the reliability of the test is its ability to produce more or less the same score for the same individual candidate. No test is known to have a hundred percent reliability. The coefficient of reliability is estimated by different methods. Usually the most probable value of reliability can be estimated out of all these.

Some criteria used for the Construction and Administration of this objective test: Arrangement of Items:

One method is to arrange the items in order of difficulty, usually the difficulty increases (i.e. Facility Value/F.V. decreases) as the test proceeds. It would probably be better to form groups of items, each group containing items of approximately equal facility, rather than to try to arrange them in a fine gradation of facility from start to finish. It is a common practice to put one or two easy items at the beginning of a test on the psychological grounds that they will give candidates confidence and putthem at ease. It is sometimes arranged according to some other method and let facility take care of itself.

A more common and defensible practice is to arrange items in groups corresponding to some acceptable classification of subject matter. Another criterion is that items should be grouped according to their types, if there is more than one type of item used within the test. This way all multiple choice items would be grouped together, all multiple completion would be in another group, and so on. In a mixed objective type test, this grouping by item type is essential, or it becomes confusing for a student to move at random from one type of item to another. While considering the arrangement of items one should keep an eye on the sequence of keys, that is, the letters which denote the correct response. It is usually thought to be undesirable to have a prolonged run of identical keys such as a long sequence of 'A's or even a set pattern of responses to get repeated over the items.

Lay-Out of the Test :

Clarity of lay-out is important. It is easy enough for a student to become confused when dealing with a single complex item. It is possible to arrange items in a double column on each side of the paper but only if the items themselves are short and simple. Even then, the order and numbering of the items should be logical and consistent.

Recording the Responses

There are various ways in which the responses of the candidates can be recorded. In large scale examining the use of some form of answer (respons sheet) is preferred. This answer sheet may either be given separately or be detached from the testbooklet. There are three main types of answer-sheet outlined briefly below but in all the three the use of a soft lead pencil is advocated because it facilitates correction if a candidate should have a change of mind.

i) The first type of answer sheet requires to write the letter

or number corresponding to the chosen response to each item. for example:

Bla	nk Ansv	ver	Sheet	Completed Answ	ver Sheet
1.		2.	\Box	1. \overline{B} 2.	D 7
3.		4.		3. <u>/A</u> / 4.	<u></u>

ii) In the second type of answer sheet the candidate marks usually by a circle, or a cross or a tick, the letter or number corresponding to the chosen response. For example:

Bla	nk .	Ang	wer	Sheet	Completed Answer	Sheet
1.	A	В	C	D	1. (A) B C D	
2.	A	В	C	D	2. A B (C) D	
3.	A	В	C	D	3. A (B) C D	

iii) The third type is used mainly when tests are marked by machine. It requires candidates to fill in completely a small lettered or numbered space by means of a pencil mark. When fed through a scoring machine (Scanner), which can detect the positions of the pencil marks and which is programmed to distinguish between correct and incorrect scores, each answer-sheet is automatically scored. For example:

	Blank Answer Sheet			Completed Answer Sheet				eet		
	A	В	C	D		A	В	C	D	
1.	0	0	0	0	1.	О	•	0	0	
2.	О	0	0	0	2.	0	0	0	•	
3.	0	o	o	0	3.	•	О	0	o	

The response pattern shown in (iii) has been used in this test.

Items Analysis:

Every item in a test should contribute something to the assessment one is trying to make. In order to see that every item does indeed carry part of the load, some statistical analysis is necessary. Analysis of test items not only helps us to identify poor items, but also decide why an item is not functioning as it was planned to do. The objective type items have an advantage over most other forms of questions that their performance under operational conditions can be quantitatively analysed and evaluated after they have been used.

Item analysis yields three indices that can be calculated for every individual item . These are :

- A) Facility Value (or Difficulty Value)
- B) Discrimination Index (or Discriminating power)
- C) Effectiveness of Distractors

A) Facility Value (or Difficulty Value) :

The facility value of an item indicates how easy or difficult it proved to be and it is determined by calculating the percentage of candidates who answered it correctly. It is usually shown as a percentage and rarely as a decimal fraction.

Total number of candidates who attempted the item

(N) = 90

Number of correct responses to the item (R) = 63

Facility of this item (FV) = Number of candidates answering the item correctly

Total Number who attempted this item.

- i) if calculated in Percentage, FV= $\frac{R}{N}$ x 100 FV= $\frac{63}{20}$ x 100 = 70%
- ii) if calculated in decimal fraction, FV= $\frac{R}{N}$ FV = $\frac{63}{91}$ = 0.70

In actual practice, a range of difficulty is allowed, e.g. between 40 and 80 percent for four option multiple choice items and 55 and 85 percent for true/false items. These limits are admittedly arbitrary and are provided only as general guidelines. If tests are used to produce a rank order, every item in the test must have a certain amount of facility. An item which is either answered correctly or incorrectly by all does not serve any useful purpose. In one case the Item in too easy while it is too difficult in the other. Therefore, it is advisable to avoid both the very difficult and the very easy items.

B) Discrimination Index (or Discriminating Power)

This statistic shows the degree to which a particular item

discriminates between the higher ability and lower ability candidates. For convenience ability is here defined in terms of how well students do the test as a whole. If a particular item is to contribute to the discriminatory function of the whole test, the higher ability candidates should obtain a greater proportion of correct responses than the lower ability candidates. There are several ways in which it can be quantified. However, a simple procedure to calculate the D.I. value is given below:

- Arrange the students in rank order according to their 1. scores on the test as a whole.
- One third of answer scripts at the top and the one 2. third at the bottom are to be separated. (Very often the top 27% of total number of students and the bottom 27% of total number of students are taken for purposes of accuracy of results)
- For each item count the number of correct responses (Nu) 3. obtained by the top third and count the number of correct responses (N_{χ}) obtained by the bottom third. If 27% is adopted, count the number of correct responses obtained by the top 27% (N $_{\rm H}$) and also count the number of correct responses obtained by the bottom 27%.
- 4. Count the number (n) of students constituting one third of all the students who took the test. (or number of students in 27%)
- 5. Calculate the discrimination of the item (DI) with the help of the following formula;

$$D.I. = \frac{N_{H} - N_{L}}{n}$$

For example:

n = 30 (one third of all students)
$$N_{H} = 27 \text{ i.e. } 27 \text{ out of } 30 \text{ answered correctly}$$

$$N_{L} = 15 \text{ i.e. } 15 \text{ out of } 30 \text{ answered correctly}$$

$$D.I. = \frac{27 - 15}{30} = \frac{12}{30} = : 0.40$$
 If top and bottom 27% are adopted, we get Johnson's upper-lower

index of D.I.

It follows that if an item is to contribute to the total discriminatory power of the test, N_H must be greater than N_L and, therefore, DI must be positive. The two extremes would be:

i) n = 30, N_H= 30, N_L = O
therefore DI =
$$\frac{30 - 0}{30}$$
 = + 1

(i)
$$n = 36$$
, $N_H = 0$, $N_L = 36$
therefore DI = $\frac{O - 36}{30} = -1$

An explanation for each of the three above mentioned cases is given below:

- In this case the item is discriminating positively between the higher ability and the lower ability candidates and is making maximum contribution.
- ii) In this case the item is also discriminating totally but in the opposite direction; that is the higher ability candidates on the test as a whole are answering incorrectly and vice-versa.
- III) In this case, the item is making no distinction between the higher ability and lower ability candidates; it is having neither a positive nor a negative effect on the discriminating power of the whole test.

With a view to make a thorough study of an objective type test on the lines mentioned above, a test with 150 items was tried out on a sample of 221 medical candidates. The details of the nature of the test and its analysis are given below:

Test Analysis

Subject Matter and Medicine and Allied Sciences
Nature of the test: MNAMS (Primary Paper-I)

Objective Test

Number of candidates: 221

Number of Items: 150

Maximum Marks: 150

Time: 3.00 Hours

About the Test:

This is an objective type test. It consists of 150 items which are divided into three sections namely Section-'A', 'B' and 'C'.

Section - 'A'

This section contains seventy five items. Each item is of multiple-choice type and has got four suggested answers. Every item has one and only one predetermined correct answer.

Section - 'B'

This section contains forty eight items of multiple true-false type. The candidates were asked to indicate for each item whether the statement of the item is true or false.

Section - 'C'

This section contains twenty seven items. There are two statements given in each item. The first statement is in the form of an assertion while the second is in the form of a reason. The candidates were asked to choose the correct response indicating either 'A' or 'B' or 'C' or 'D' or 'E'. The candidates were given the following instructions:

- use 'A' if assertion is true, reason is true and reason is a correct explanation.
- ii) use 'B' if assertion is true, reason is true but reason is not a correct explanation of assertion.
- iii) use 'C' if assertion is true, reason is false.
- iv) use 'D' if assertion is false, reason is true.
- v) use 'E' if both assertion and reason are false.

With all these instructions the candidates were asked to shade the circle below the appropriate response on the answer-sheet.

Sample

The students who appeared for the part-I, MNAMS examination, were selected for studying the efficacy of the test and the efficiency of its items. A total population of 221 candidates was found suitable for the study.

Administration

An objective type test with 150 items was administered to a sample of 221 candidates. They were given 3.00 hours to complete the test. The candidates were asked to attempt all the 150 items of the test. The candidates were further told not to write anything on the testbooklet. Separate answer-sheets were provided to every candidate which were collected from them after the allotted time.

Scoring:

All the 221 answer-scripts were manually scored with the help of a scoring key especially designed for the test items. Each item was given 1 mark if it was correctly answered and zero mark if it was wrongly answered. In this manner all the 150 items were scored and their marks were tabulated for further analysis.

Data Analysis

The data were analysed with the help of various statistical techniques. Different values like mean, mode, median, standard deviation, variance and standard error of the mean were calculated. The reliability of the test by various methods was calculated. The data were also analysed with the help of analysis of variance technique to provide estimates of components of variation and to make valid conclusions. Derived scores in respect of Z-scores, T-scores, AGCT, CFEB scores and percentile ranks were also worked out for all the candidates in order to derive comparable scales. Items were also analysed to find out their facility and discrimination indices.

Interpretation of the Results:

The results of the test are interpreted in the following sequence:

1) Mean, Mode, Median and Standard Deviation

The scores obtained by the candidates are first of all arranged in an order (see table 1.0) to calculate some desired values.

The range of the marks secured by the candidates in this test is found to be between 46 and 111. The minimum marks obtained by the candidates are 46 and the marks 111. The mean value of the test is 78.9 It is seen from the range of the marks that a few candidates say only 9.5 percent of the total population, have secured 100 and more than 100 out of 150 marks. Half of the candidates have secured less than 51 percent marks on the test. The median of the test which indicates the middle candidate's score on the test is 77. It signifies that 77 is that point on the scale of measurement above which are exactly half the cases and below which are the other half and it seems of course very true if we look at the marks of the candidates. The mode of the test which indicates the maximum frequency in a distribution in this case happens to be exactly

similar to the median value. As many as nine candidates have secured 77 marks out of 150. The standard deviation of the test is 15. It indicates that a majority of the candidates have secured their marks in the range of 64 to 94 and this happens to be true. As many as 65 percent of the cases are found within this range. Only 19 percent of cases are found above and 16 percent of the cases are found below this range. It also signifies that the marks obtained by the candidates are normally distributed. The standard error of the mean of the test is 1.015 which indicates that the limits of marks within which the arithmatic mean will lie if we are to give this test over and over again would be only 1.015 or it signifies that the limit of tolerance of mean is 1.015. All these values are given in Table 1.1.

<u>Table - 1.0</u> Frequency distribution of Marks⁺

<u>S. No</u> .	<u>Mark</u> s	Frequency	Cum Freq.
1	46.00	2.00	2.00
2	50.00	1.00	3.00
3	51.00	4.00	7.00
4	53.00	4.00	11.00
5	54 00	2.00	13.00
6	55.00	2 00	15.00
7	56.00	2.00	17.00
8	57.00	1.00	18.00
9	58.00	2.00	20.00
10	59.00	3.00	23.00
11	60.00	4.00	27.00
12	61.00	3.00	30.00
13	62.00	1.00	31.00
14	63.00	3.00	34.00
15	64.00	4.00	38.00
16	65.00	5.00	43.00
17	66.00	8.00	51.00
18	67.00	5.00	56 .00
19	68.00	6.00	62.00
20	69.00	4.00	66.00
21	70.00	6.00	72.00
22	71.00	6.00	78.00
23	72.00	5.00	83.00
.24	73.00	1.00	84.00
25	74.00	6.00	90.00
26	75.00	7.00	97.00
27	76.00	6.00	103.00
28	77.00	9.00	112.00
29	78.00	4.00	116.00
30	79.00	2.00	118.00
31	80.00	2.00	120.00
32	81.00	3.00	123.00

S. No	Marks	Frequency	Cum Freq
33	82.00	4.00	127.00
34	83.00	5.00	132.00
35	ε4.00	3.00	135.00
36	85.00	6.00	141.00
37	86.00	5.00	146.00
38	87.00	8.00	154.00
39	88.00	6.00	160.00
40	89.00	4.00	164.00
41	90.00	3.00	167.00
42	91.00	2.00	169.00
43	92.00	3.00	172.00
44	94.00	7.06	179.00
45	95.00	4.00	183.00
46	96.00	6.00	189.00
47	97.00	1.00	190.00
48.	98.00	3.00	193.00
49	99.00	7.00	200.00
50	100.00	4.00	204.00
51	101.00	1.00	205.00
52	102.00	2.00	207.00
53	1 03.00	3.00	210.00
54	104.00	3.60	213.00
55	105.00	1.00	214.06
56	106.00	4.00	218.00
57	110.00	2.00	220.00
58	111.00	1.00	221.00

⁺Output from computer

Table of some desired statistics+

-	Table-1.1
Mean of Score	78, 9005
Median of Score	77.0000
Mode of Score	77.0000
Variance of Score	226.9231
Standard Deviation	15.0640
S. D. by Dietrich Method	14.8288
Standard Error of the Mean	1.0156

⁺Output from computer

Percentile Ranking

A candidate's percentile rank describes his relative standing within a specified group. A percentile is one of the ninety-nine points dividing a frequency distribution into one hundred groups of equal size. The scores which serve to identify a person's status within a specified group may be expressed in a variety of forms. One convenient way of indicating the level of an individual's performance is to quote his percentile rank. This tells us what percentage of the group performed at a lower level. Thus if we compare an individual's mark with those obtained by the group as a whole, and find that when their marks are arranged in rank order he is exactly half way down the list, he would be said to be at the 50th percentile. In other words fifty percent of the group were below him in the list. If he faired better than 90 percent of the group he would have a percentile rank of 90 and so on.

It is clear that this is a much more meaningful representation of an individual's performance than his total mark or percentage mark in an examination. Table 1.1a shows the percentile rank calculations of all the 221 candidates.

Table 1. 1a showing percentile rank calculation

S. No.	Marks(x)	Frequency(f)	Cumulative Freq. (Cf)	Cumulative Freq. mid- point (Cfm)	Cumulative Percentage of mid point (P.
1	111	1	221	220.50	99. 77
2	110	2	220	219.00	99. 09
3	106	4	218	216.00	97. 73
4	105	1	214	213.50	96.38
5	104	3	213	211.50	95. 70
6	103	3	210	208, 50	94.34
7	102	2	207	206.00	93.21
8	101	1	205	204.50	92.53
9	100	4	204	202.00	91.40
10	99	7	200	196.50	88; 91
11	98	3	193	191.50	86.65
12	97	İ	190	189.00	85.74
13	96	6	189	186.00	84.16
14	95	4	183	181.00	81.90
15	94	7	179	175.50	79.41
16	92	3	172	170.50	77.14
17	91	2	169	168.00	76.01
18	90	3	167	165.50	74.88
19	89	4	164	162.00	73.30
20	88	6	160	157.00	71. 0 4

21	87	8	154	150.00	67.87
22	86	5	146	143.50	64.93
23	85	6	141	138,00	62.44
24	84	3	135	133.50	60.40
25	63	5	132	129.50	58.59
26	82	4	127	125.00	56.56
27	٥1	3	123	121.50	54.97
26	80	2	120	119.00	53.84
29	79	2	118	117.00	52.94
36	78	4	116	114.00	51.58
31	77	9	112	107.50	48.64
32	76	6	103	100.00	45.24
33	75	7	097	93.50	42.30
34	74	6	090	87.00	39.36
35	73	1	084	83.50	37.78
36	72	5	063	80.50	36.42
31	71	6	076	75.00	33.93
3 b	70	6	072	69.00	31.22
39	69	4	066	64.00	28.95
40	66	6	062	59.00	26.69
41	67	5	056	53.50	24.20
42	66	ъ	051	47.00	21.26
43	65	3	043	40.50	1 5. 32
44	64	4	03 ხ	36.00	16.25
45	63	5	034	32.5 0	14.70
46	62	1	031	30.56	13.80
47	61	3	030	25.50	12.59
40	60	4	027	25.00	11.31
49	59	3	023	21.50	9.71
50	56	2	020	19.00	b. 59
5!	57	1	010	17.50	7.91
52	5€	2	017	16.00	7. 23
53	58	2	015	14.00	6.33
54	54	2	013	12.00	5.42
55	53	4	011	9.00	4.07
56	51	4	007	5.00	2.26
57	50	1	003	2.50	1.13
58	46	2	002	1.00	0.45

Reliability of the Test

The reliability of the test calculated by various $\boldsymbol{m} \boldsymbol{e} \boldsymbol{t} \boldsymbol{b} \boldsymbol{e} \boldsymbol{d} \boldsymbol{s}$ is given below:

A. Solit Halves Reliability

In this method the test of 150 items is split into two halves namely:

i) a test of odd numbered items and a test of even numbered items.

Marks obtained by candidates in odd numbered item test and even numbered item test are all found out. Product moment correlation is worked out to give the split halves reliability.

- iii) another way of making two tests out of one is to take any random 75 items and constitute into a test while the rest will be made into another. Candidate's marks on these two tests are found and product moment correlation found out.
- iii) yet another way to have two halves of the same 150 items is to take the first 75 items as a test and last 75 as another. Candidates' marks on these first 75 and last 75 items are found and correlated.

Thus, all the 150 test items are divided into two halves by the three above mentioned methods and then the reliability by various methods is calculated. The different values are given in Table 1.2.

It is seen from Table 1.2 that the reliability of the test calculated by various methods is fairly high. In most of the cases, the reliability of the test is greater than 0.85 or approximately 0.89 which is of course a very high value for a test of this type. It further signifies that the test items are nearly equal in difficulty and hence the reliability of the test is quite high.

Table-1.2

Reliability of the Test

	Split halves reliability	Spearman Brown whole test reliabi- lity	Rulon Formula of reliability	Flanagan Formula of reliability
Odd even split	0.8080	0.8938	0.8907	0.8907
Random half split	0.5878	0.7404	0.7310	0.7310
First-second half	0.7740	0.8726	0.8719	0.8720
			•	
Reliability by Moiser Reliability by KR-20		ad.	= 0.8080 = 0.8753	
Reliability by Moiser Reliability by KR-20 KR-I 20 form. Based	formula		•••••	
Reliability by KR-20	formula on 27% HAG an		= 0.8753	
Reliability by KR-20 KR-I 20 form. Based	formula l on 27% HAG an -20 formula		= 0.8753 = 0.9284	

Lower bound estimate of exam.	
reliability	= 6.9079
Stanley Approximation	= 0.8809
Index of Measurement efficiency	= 0.8942
Reliability by Analysis of Variance	= 0.8753
Tucker Modified KR form.	= 0.8753

⁺ Output from Computer

Analysis of Variance

The data were also analysed with the help of analysis of variance technique. for which the following hypotheses were developed:

Development of Hypotheses

In order to study the individual's marks on the test items and also to study the effect of test items on the individual candidates the following null hypotheses were formulated.

- HO The individual candidates will not vary significantly on the test items.
- HO₂ The test items will not have any significant difference on the individuals' scores.

In order to test the hypotheses developed earlier, the analysis of variance technique was used to provide estimates of components of variation and to make valid conclusions. The summary of the complete analysis of variance is given in Table 1.3.

Table 1.3

Analysis of Variance

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares Error	Variance Ratio
Examinees	334.3359	220	1.5197	8.0177+
Items	1717. 5039	149	11.5269	60.8139 ⁺
Remainder	6213.2344	32780	0.1895	

⁺ Significant at .05 and also at .01 level.

Analysis of Variance

To study the effect of individual student on the test items and also the effect of test items on individuals' scores, the data were analysed with the help of analysis of variance technique. The hypotheses which were formulated earlier were tested on the basis of the 'F' - values given in Table-1.3.

Hypothesis - I

 $$\operatorname{Tnis}$$ hypothesis states that the individual candidates will not vary significantly on the test items.

It is seen from Table 1.3 that the calculated value of 'F' in relation to examinees is greater ($F \approx 8.6177$) than the tabulated value, therefore, the null hypothesis is rejected. It means that the individual candidates differ significantly on the test items. The 'F' ratio for examinees is significant beyond the .01 point, leaving us with considerable confidence that the examinees difference, as such, have a real bearing upon the difficulty of the items of the test.

Hypothesis - II

This hypothesis states that the test items will not have any significant difference on the individuals' scores.

It is seen from Table 1.3 that the calculated value of 'F' in relation to items is greater (F=60.8139) than the tabulated value, therefore, the null hypothesis is rejected. It indicates that the test items have a significant difference on the individuals' scores. The F-ratio for items is significant beyond the .01 point, leaving us with considerable confidence that the items, as such, have a real bearing upon the individuals' scores.

Item Analysis

Facility Value(F, V.)

The facility value of an item indicates how easy or difficult it proved to be and is determined by calculating the percentage of candidates who answered it correctly. Usually the facility

value of an objective type test item must range from 20% to 85%. The various standards suggested to check the facility value of an objective type item are given below:

At trial test stage

0 to 25% F.V. item is too hard (modify, check distractors) 25% to 75% F.V. item of correct facility 75% to 100% F.V. item is very easy (reword, reject, check for clues)

After trial but in actual use

0 to 25% topic not taught well/not learnt well (check teaching learning technique)

25% to 75% topic reasonably taught well/learnt well

75% to 100% exceptionally good knowledge of topic

2. Discrimination Index (D.I.)

Tals is an important item analysis characteristic for an objective type test item. The quality of an item in distinguishing between higher ability and lower ability candidates is technically called discrimination. The statistics showing discrimination value is called discrimination index. These indices range from - 1.0 to +1.0. A good quality item should discriminate between candidates who have achieved well and those who have not. The main purpose of discrimination index is to tell us if an item really is showing differences between more capable candidates and less capable candidates. The various standards suggested to check the discrimination index of an objective type item are given below:

0.6 and above; excellent items

0.2 to 0.6: very good items

0 to 0.2: needs improvement

Items with negative DI should be rejected.

The F.V. and D.I. for all the 150 items administered to a sample of 221 candidates were calculated, summarised and given in Table 3.0. The F.V. and D.I. values for individual items are separately given.

Ø٩.	% choosing			Discrimination	Variance
No.	Question	Index	Value	Index	
94	100.0000	78.4208	0.9831	0.033898	0.008968
95	100.0000	72.2127	0.8559	0.220339	0.089638
96	100.0000	74.9050	0.9746	-0.016949	0.047296
97	100.0000	72.2851	0.9068	0.186441	0.089638
98	100.0000	51.0724	0.6271	0.203390	0.233309
99	100.0000	59. 905 0	0.7288	0.101695	0.189185
100	100.0000	31.8552	0.3898	0.542373	0.230953
101	100.0000	70.8959	0.8898	0.186441	0.103806
102	100.0000	48.9321	0.5932	0.576271	0.244426
103	100.0000	47. 7466	0.5593	0.305085	0.242993
104	100.0000	57.6968	0.6864	0.288136	0.205729
105	100.0000	17. 5204	0.2542	0.0	0.172560
106	100.0000	73.4887	0.9576	0.050847	0.067157
107	100.0000	50. 1312	0.5932	0.508475	0.240536
108	100.0000	33.9140	0.4237	0. 135593	0.242993
109	100,0000	4.3348	0.0847	-0.135593	0.059335
110	100,0000	62.9231	0.7966	0.372881	0.177515
111	100,0000	12.0090	0.1864	0.067797	0.123830
112	100.0000	47. 8235	0.5847	0.288136	0.243730
113	100.0000	48.1584	0.6356	0.118644	0.239635
114	100,0000	40.1584	0.5424	-0.101695	0.249872
115	100,0000	69.0271	0.8559	0.254237	0.123830
116	100,0000	50.4389	0.6102	0.474576	0.239635
117	100,0000	42.3032	0.5169	0.423729	0.249954
118	100.0000	52.6516	0.6864	0.220339	0.228374
119	100,0000	33.3937	0.4831	0.050847	0.242993
120	100,0000	13.0724	0.1525	0.169491	0.130177
121	100,0000	27.3575	0.3305	0.288136	0.219652
122	100,6000	39.8959	0.5000	0.220339	0.249872
123	100.0000	63.7873	0.7712	0.186441	0.162159
124	100.0000	44.0814	0.5932	0.271186	0.248152
125	100,0000	32.5520	0.4068	0.305085	0.237710
126	100,0000	18.8461	0.2288	0.288136	0.170021
127	100.0000	22.9412	0.3136	0.457627	0.191397
128	100.0000	27.4027	0.3136	0.389830	6.216416
129	100,0000	31.6199	0.4407	0.101695	0.242993
130	100,0000	37.6832	0.5169	0.118644	0.248848
131	100,0000	20.0181	0.2203	0.033898	0.186933
132	100.0000	36.0633	0.3983	0.423729	0.244426
133	100,0000	33. 1674	0.3729	0.203390	0.240536
134	100,0000	14.4118	0.1441	0.016949	0.148236
135	100.0000	15. 0045	0.1610	0.152542	0.148236
36	100.0000	13.8462	0.1610	0.118644	0.139391

Qn.	% choosing	Mean Ability	Facility	Discrimination	Varlance
Na.	Question	Index	Value		
137	100.0000	30.0090	0.4068	0.372881	0.228374
138	100.0000	42.5565	0.4915	0.474576	0.249954
139	100.0000	24.9955	0.2797	0.322034	0.207612
140	100.0000	16.9231	0.2373	0. 135593	0.162159
141	100.0000	32.6244	0.4068	0.338983	0.236686
142	100,0000	33.7104	0.3898	0.305085	0.241396
143	100.0000	34.5475	0.3814	0.457627	0.240536
144	100.0000	26.1584	0.3051	0.372881	0.209455
145	100.0000	33.8054	0.4153	0.423729	0.240536
146	100.0000	12.2217	0.1525	0. 135593	0.127024
147	100.0000	19. 9955	0.3136	0.186441	0.182306
148	100.0000	21.4977	0.2712	0.271186	0.186933
149	100.0000	25.8145	0.3220	0.271186	0.213018
150	100.0000	11.6063	0.1864	0.203390	0.114003

⁺ Output from Computer.

If one looks at the F.V. and D.I. values of individual items which are given in Table 3.0 one finds there are a few items which need further improvement. Let us look at the F.V. and D.I. of all the items separately.

It is seen from Table 3.0 that there are twenty items in the test which nave got high facility values. It signifies that these items are easy items and they are correctly answered by a large number of candidates. Against this there are twelve items which have got the least facility values. It shows that these are hard items and they are correctly answered only by a few candidates (that is why their facility values are less). It is therefore statistically proved that the items in the test are proportionately included. It shows an ideal combination of some easy, some hard and some medium items. In fact easy and hard items which are contrary to each other have approximately an equal load on the test as a result of which there is a very good balance. Majority of the items are of medium difficulty and this is a very good sign of a well planned test. On the basis of these statistics we can precisely say that this test out of 150 items contains 12 hard, 20 easy and 118 medium items, which of course seems to be a very good combination. From the psychological point of view we must have some easy items in the test (preferably in the beginning of the test) so that the candidates get some positive reinforcement by solving them. If one does not give the easy items in the test, the candidates may get nervous. Since we have to discriminate the candidates of higher ability and lower ability which is the first and the formost purpose of the test, it is also necessary to include some hard items which could be solved only by the higher ability candidates. Apart from these two types of items i.e. hard items & easy items each test should have some items of medium difficulty.

If we look at the D.I. values of the Items given in Table 3.0, it is seen that there are twenty five items which have got negative D.I. values. It means that these items have failed to serve their purpose or in other words these items have failed in discriminating between the higher ability and lower ability candidates. It furtner signifies that these items are either to be rejected or modified. Apart from it there are thirty items in the test which have got less D.I. values. It does not necessarily mean that these items are not at all good items and therefore they should be rejected. They need further improvement and it would be possible either by changing the distractors of the items or by converting or remodifying the stems of the items.

As a whole, the test is extremely good and it could be further improved if a few items which have shown less F.V. and D.I. values are slightly modified.

Derived Scores

It is necessary to convert the raw score scales into other standard scales for various reasons. One objective is to effect a more reasonable scale of measurement. Another important objective is to derive comparable scales for different tests. The raw scores from each test yield numbers that have no comparability with numbers from another test. There are many situations for

wanting not only comparable values from different tests but also values that have some standard meaning. These are the problems of test norms and test standards. It is almost certain that derived scores provide us with more nearly comparable values than do raw scores. No informed person would think of using raw scores as a basis of making direct comparisons among individual positions with respect to trait variables. Conversion of raw scores to values on some other common scale is essential. Derived scores in respect of Z.T. AGCT. CEEB are worked out for all the 221 candidates. Table 2.0 summarises the results of calculations.

- Z-scores have O for their mean and 1 for their standard deviation
- T-scores are linearly transformed Z scores with mean at 50 and S.D. at 10.
- 3. AGCT (100/20)
- 4. CEEB (College Entrance Examination Board) 500/100

Table 2.0 +

S. No	l'arks	Z-score	T-score	AGCT-score	CEEB-score
1	111	2. 13	71.31	142.62	713.09
2	1-0	2.06	70.64	141.29	706.45
3	110	2.06	70.64	141.29	706.45
4	106	1 80	67.99	135.98	679.90
5	106	1.80	67.99	135.98	679.90
6	106	1,80	67.99	135.98	679.90
7	106	1.80	67.99	135.98	679.90
3	105	1. 73	67.33	1 34 . 65	673.26
9	104	1.67	66.66	133.32	666.62
10	104	1.67	66.66	133.32	666.62
11	104	1.67	66.66	133.32	666.62
12	103	1.60	66.00	1 32 .00	659.98
13	103	1 60	66.00	132.06	659.98
14	103	1.60	66.00	132.00	659.98
15	102	1.53	65.33	130.67	653.34
16	1 02	1.53	65.33	130.67	653.34
17	101	1.47	64.67	129.34	646.70
18	100	1.40	64.01	128.61	640.67
19	100	1.40	64.0	28.01	640.07
20	100	1.40	64.01	128.01	640.67
21	100	1.40	64.01	128.01	640.07
22	99	1.33	63.34	126.69	633.43
23	99	1.33	63.34	1 26.69	633.43
24	99	1.33	63.34	126.69	633.43
25	99	1, 33	63.34	126. 69	633.43
26	99	1.33	63.34	126.69	633.43
27	99	1.33	63.34	126.69	633 . 43
28	99	1.27	63.34	126.69	633.43
29	98	1.27	62.68	125.36	626.79
30	98	1.27	62.68	125.36	626 . 7 9
31	98	1.27	62.68	125.36	626.79
32	97	1.20	62.02	124.03	620.15
33	96	1.14	61.35	122.70	613.51
34	96	1.14	61.35	122.70	613.51
35	96	1.14	61.35	122.70	613.51
36	96	1.14	61.35	122.70	613.51
3 /	96	1.14	61.35	122.70	613.51
38	96	1.14	61.35	1 22 .70	613.51
39	95	1.07	60.69	121.37	606.87
40	95	1.07	60.69	121.37	606.87
41	95	1.07	60.69	121.37	606.87
42	95	1.07	60.69	121.37	606.87
43	94	1.00	60.02	120.05	600.24
44	94	1.00	60.02	120.05	600.24
45	94	1.00	60.02	120.05	600.24

S. No	Marks	Z-score	T-score	AGCT-score	CEEB-score
46	94	1.00	60.02	120.05	600.24
47	94	1.00	60.02	120.05	600.24
48	94	1.00	60.02	120.05	600.24
49	94	1.00	60.02	120.05	600.24
50	92	0.87	58.70	117.39	586.96
51	92	0.87	58.70	117.39	586.96
52	92	0.87	58.70	117.39	586.96
53	91	0.80	58.03	116.06	580.32
54	91	0.80	58. 03	116.06	580.32
55	90	0.74	57.37	114.74	573.68
56	90	0.74	57.37	114.74	573.68
57	90	0.74	57.37	114.74	573.68
58	89	0.67	56.70	113.41	567.04
59	89	0.67	56.70	113.41	567.04
60	89	0.67	56.70	113.41	567.04
61	89	0.67	56.70	113.41	567.04
62	88	0.60	56.04	112.08	560.41
63	88	0.60	56.04	112.08	560.41
64	88	0.60	56.04	112.08	560.41
65	88	0.60	56.04	112.08	560.41
66	88	0.60	56.04	112.08	560.41
67	88	0.60	56.04	112.08	56 0 ′. 41
68	87	0.54	55.38	110.75	553.77
69	87	0.54	5 5. 3 8	110.75	553 . 77
70	87	0.54	5 5.38	110.75	553.77
71	87	0.54	55.38	110.75	553 . 77
72	87	0.54	55.38	110.75	553 .77
73	87	0.54	55.38	110.75	553.77
74	87	0.54	5 5. 3 8	110.75	553.77
75	87	0.54	5 5.38	110.75	553.77
76	86	0.47	54.71	109.43	54 7. 13
77	86	0.47	54.71	109.43	547.13
78	86	0.47	54 . 71	109.43	547.13
79	86	0.47	54.71	109.43	547.13
80	86	0.47	54.71	109.43	547.13
81	85	0.40	54.05	108.10	540.49
82	85	0.40	54: 05	108.10	540.49
83	85	0.40	54.05	108.10	540.49
84	85	0.40	54.05	108.10	540.49
85	85	0.40	54.05	108.10	540.49
86	85	0.40	54.05	108.10	540.49
87	84	0.34	53.39	106.77	533.85
88	84	0.34	53.39	106.77	533.85
89	84	0.34	53.39	106.77	533.85
90	83	0.27	52 . 72	105.44	527.21
91	83	Q_27	52.72	105.44	527.21
92	83	0.27	52.72	105.44	527.21
93	83	0.27	52.72	105.44	527.21
94	83	0.27	52. 72	105.44	527.21
95	82	0.21	52.06	104.12	520.58
96	82	0.21	52.06	104.12 .	520.58

S. No	Marks	Z-score	T-Score	AGCT-Score	CEEB-Score
97	82	0.21	52.06	104.12	520.58
98	82	0.21	52.0 6	104.12	520.58
99	81	0.14	51.39	102.79	513.94
100	81	0.14	51.39	102.79	513.94
101	81	0. 14	51.39	102.79	513.94
102	80	0.07	50.73	101.46	507.30
103	80	0.07	50.73	101.46	507.30
104	79	0.01	50.07	100.13	500.66
105	79	0.01	50.07	100.13	500.66
106	78	-0.06	49.40	98.80	494.02
107	78	-0.06	49.40	98.80	494.02
108	78	-0.06	49.40	98.80	494.62
109	78	-0.●6	49.40	98.80	494.02
110	77	-0.13	48.74	97.48	487.38
111	77	-0.13	48.74	97.48	487.38
112	77	-0.13	48.74	97.48	487.38
113	77	-0.13	48.74	97.48	487.38
114	77	-0.13	48.74	97.48	487.38
115	77	-0.13	48.74	97.48	487.38
116	77	-0.13	48.74	97.48	487.38
117	77	-0.13	48.74	97. 48	487.38
118	77	-0.13	48.74	97.48	487.38
119	76	-0.19	48.07	96.15	480.75
120	76	-0.19	48.07	96.15	480.75
121	76	-0.19	48.07	96.15	480.75
122	76	-0.19	48.07	96.15	480.75
123	76	-0.19	48.07	96.15	480.75
124	76	-0.19	48.07	96.15	480.75
125	75	-0.26	47.41	94.82	474.11
126	75	-0.26	47.41	94.82	474.11
127	75	-0.26	47.41	94.82	474.11
128	75	-0.26	47.41	94.82	474.11
129	75	-0.26	47.41	94.82	474.11
130	75	-0.26	47.41	94.82	474.11
131	75	-0.26	47.41	94.82	474.11
132	74	-0.33	46.75	9 3 . 49	467.47
133	74	-0.33	46.75	93 . 4 9	467.47
134	74	-0.33	46 . 75	93.49	467.47
135	74	-0.33	46 . 75	93.49	467.47
136	74	-0.33	4 6.75	93.49	467.47
137	74	-0.33	46.75	93 . 4 9	467.47
138	73	-0.39	46.08	92.17	460.83
139	72	-0.46	45.42	90.84	454.19
140	72	-0.46	45.42	90.84	454.19
141	72	-0.46	45.42	90.84	454.19

8. No	Varks	Z-score	T-score	AGCT-score	CEEB-score
.40	70	0.40	4- 40		
142	72 50	-0.46	45. 42	90.84	454.19
143	72	-0.46	45.42	90.84	454.19
144	71	-0.52	44. 76	89. 51	447.55
145	71	-0.52	44 . 76	89. 51	447.55
146	71	-0.52	44. 76	89.51	447.55
147	71	-0. 52	44.76	89. 51	447.55
148	71	-0.52	44 . 76	89.51	447.55
149	71	-0.52	44.76	89.51	447.55
150	70	-0.59	44.09	88.18	44 0.9 2
151	70	-0.59	44.09	88.18	44 0. 92
152	70	-0.59	44.09	88.18	44 0.92
153	70	-0.59	44.09	88.18	440.92
154	70	-0.59	44.09	88.18	440.92
155	70	-0.59	44.09	88.18	440.92
156	69	-0.66	43.43	86.86	434.28
157	69	-0.66	43.43	86.86	434.28
158	69	-0.66	43.43	86.86	434.28
159	69	-0.66	43.43	86.86	434.28
160	68	-0. 72	42.76	85. 53	427.64
161	68	-0. 72	42.76	85.53	427.64
162	68	-0.72	42.76	85.53	427.64
163	68	-0.72	42.76	85.53	427.64
164	68	-0.72	42.76	85.53	427.64
165	68	-0.72	42.76	85. 53	427.64
	67	-0.72 -0.79	42.10	84.20	421.04
166		-0.79 -0.79		84.20	421.00
167	67		42.10		
168	67	-0.79	42.10	84.20	421.00
169	67	-0.79	42.10	84.20	421.00
170	67	-0.79	42.10	84.20	421.00
171	66	-0.86	41.44	82.87	414.36
172	66	-0.86	41.44	82.87	414.36
173	66	-0.86	41.44	82.87	414.36
174	66	-0.86	41.44	82.87	414.36
175	66	-0.86	41.44	82.87	414.36
176	66	-0.86	41.44	82.87	414.36
177	66	-0.86	41.44	82.87	414.36
L78	66	-0.86	41.44	82.87	414.36
179	65	-0.92	40.77	81. 54	407.72
180	65	-0.92	40.77	81.54	407.72
181	65	-0.92	40.77	81.54	407.72
82	65	-0.92	46.77	81.54	407.72
183	65	-0.92	40.77	81.54	407.72
184	64	-0.99	40.11	80.22	401.09
185	64	-0.99	40.11	80.22	401.09
186	64	-0.99	40.11	80.22	401.09
187	64	-0.99	40.11	80.22	401.09
188	63	-1.06	39.44	78.89	394.45
	63	-1.06	39.44	78.89	394.45
189			39. 44 39. 44	78.89	394.45 394.45
190	63	-1.06	JJ. 44	77.56	J#. 40

S. No	Varks	Z-score	T-score	AGCT-score	CEEB-score
192	61	-1. 19	38. 12	76.23	381.17
193	61	-1.19	38.12	76.23	381.17
194	61	-1.19	38.12	76.23	381.17
195	60	-1.25	37.45	74.91	374.53
196	60	-1.25	37.45	74.91	374.53
197	60	-1.25	37.45	74.91	374.53
198	60	-1.25	37.45	74.91	374.53
199	59	-1. 32	36.79	73.58	367.89
200	59	-1.32	36.79	73.58	367.89
201	59	-1.32	36.79	73.58	367.89
202	58	-1.39	36.13	72.25	361.26
203	58	-1.39	36 . 13	72.25	361.26
204	57	-1.45	35.46	70.92	354.62
205	56	-1 52	34.80	69.60	347.98
206	56	-1 52	34: 80	69.60	347.98
207	55	-1.59	34.13	68.27	341.34
208	55	-1.59	34.13	68.27	341.34
209	54	-1.65	33.47	66.94	334.70
210	54	-1.65	33.47	66.94	334.70
211	53	-1. 72	32.81	65.61	328.06
212	53	-1. 72	32.81	65.61	328.06
213	53	-1. 72	32.81	65.61	328.06
214	53	-1. 72	32.81	65.61	328.06
215	51	-1.85	31.48	62.96	314.79
216	51	-1 85	31.48	62.96	314.79
217	51	-1.85	31.48	62.96	314.79
218	51	-1.85	31.48	62.96	314. 79
219	50	-1. 92	30.81	61.63	308.15
220	46	-2.18	28.16	56.32	281.59
221	46	-2.18	28.16	56.32	281.59

⁺ Output from computer

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IF(T(T,J)_La,M)GOTO9
CM(T,J)=0,
GOTO7
CM(T,J)=1,
GO TO 7
CM(T,J)=2,
CONTINUE
0044
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0046
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0052
                                                                                                                                                                                                                                                 P0101=1,4
                                                                                                                                                                                                                                      F(CM(1,1),F0,2,)GOTO10
PT(1)=PT(1)+CM(1,J)
                                                                                                                                                                                                                                  PT(1)=RT(1)+CM(1,1)
CONTINUE
CONTINUE
CONTINUE
FT(1)=RT(1)+CM(1,1)
CONTINUE
FT(1)=RT(1)+CM(1,1)
L=M/2
   0054
0055
0056
0057
0058
0050
                                                                                                                                                10
       0061
   9067
9063
9064
9065
9066
9067
                                                                                                                                                                                                                                      L=M/2

DD131=1,N

DD131=1,L

IF(CM(I,J),Fu,2,)GUT014

FH(I)=FH(I)+CM(I,J)
                                                                                                                                                                                                                                      CONTINUE
A: H(1)=PT(1)=FH(1)
                                                                                                                                                                                                                                  AIH(1)=PT(1)=FH(1)
DO15|=1,4
DO15|=1,4
E=1PAN(1)
JF(CM(1,K)_FD_2_)GOTD16
MHG(1)=PM(1)+CM(1,K)
CONTINUE
MHG(1)=PM(1)=PM(1)
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                                                                                                                                                                                                                                  JTM=1
JTM=1
SMATHT(1)
RICEPT(1)
RICE
       0091
           0093
                                                                                                                                                60108091
8992 BIG=RT(I)
       0095
0095
0097
0098
                                                                                                                                                                                                                              J#=1
GnTngqq1
                                                                                                                                                AGUT
                                                                                                                                                                                                                                                    SMAERT(I)
                                                                                                                                                        Jim=1
APP1 CONTINUE
JMI=JTM
           0100
```

23356 C. (1)=C.C.(1)+C.KPL)
1=(+1)
27356 C. (1)=C.C.(1)+C.KPL)

```
0259
                                                                                                                                                                                                                                                                                               PPINTA9, SW1, SW2, SW3
                                                                                                                                                                                                                                                                                          POINTAG.SM1,5W2,5M5
POINTAG.SM1,5W2,5M5
POINTAG.MG1,5W2,5M5
POINTAG.MG1,FM5,MG1
POINTAG.MG1,FM5,MG1
FORMATICKY,1a, FLAMGANG FORMILA OF MELTAMILITY',//)
POINTAG.MG1,FF5,FM7
PRINTAGO.MG1,FF5,FM7
PRINTAGO.MG1,FM7
PRINTAG
0259
0261
0262
0263
0264
0265
                                                                                                                                                                                       71
                                                                                                                                                                                       72
    0267
    0267
                                                                                                                                                                                                                                                                                               AMERICAKA-SUBTY(Y1)-SOKT(VII)/SOMT(VI-VY--, *AKA-SORT(VI-VYO))
PRINTTSP, AME
FORMAT(///, EX, ' REITARILITY HY WITSEN SHEDT CITY METHOD', FR. a)
INTERNAL CUNSISTENCY DELIANTLITY ESTIMATES
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    0>70
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                                                                                                                                                                                                                                                                                                    L1=4N=27./100.
                                                                                                                                                                                                                                                                                               AALEL!
DOBOJEL.M
                                                                                                                                                                                                                                                                                               MR27(J)=0.
                                                                                                                                                                                                                                                                                               CR77(J)=n.
DN811=1,L1
IF(CM(I,J),F0,1,)COTDA2
IF(CM(I,J),F0,2,)GOTOA11
WR27(J)=WR27(J)+1,
GOTO811
0278
0279
    0280
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0287
0288
                                                                                                                                                                                                                                                                                          GTIO811
CP27(J) #CP27(J)+1,
IF(J,F0,1)GTIO81112
GTIO81
**4#S#+RT/I) #PT/I)
CONTINUE
                                                                                                                                                                         82
811
                                                                                                                                                                                            A1112
                                                                                                                                                                                                                                                                                               172=4-L1+1
DD831=177.N
                                                                                                                                                                                       DARIETZAN

| F(m([,J], FQ,1,), fGTORM
| F(m([,J], FQ,2,), GCTORM
| ANAPZ(J)=ANAPZ(J)=1,
| GOTORM
| ANAPZ(J)=ANAPZ(J)=1,
| GOTORM
| ANAPZ(J)=ANAPZ(J)=1,
| F(J,FQ,1)GCTORMONO
| GOTORM
|
    0290
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POINT104,1, (I(J), AI(J), FI(J), DI(J), VVAH(J) FORMAT(14, FI2, a, 2F12, a, 2X, 2F15, 6)

FORMAT(///,ZY,'S,NO.',2X,'MARKS',ZY,'ZSCORE',ZY,'T-SCORE',2X,'AGC

PRINTING
FORMAT(25%, OFRIVED SCORE TABLE 1,///)

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ORIGINAL PATA

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2		НО В ВОО В В НА В ЧЕВНА В ВЕНЕВ В В СОВЕТИТЕ В В В В В В В В В В В В В В В В В В В
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9		T T F F T T T T T F F T F F F F F F T F T T T T T T C D D D A D A C C A F D A H A E C A A C C F H E H A H D H A B C C A H D A C C A H D A C C A D A C C C D H A C N C C D C B H D C C A A H D D C D H R A H H H A D D A A A H C C H D A C A D A C C O D N D H D H D H D H D T C A H F T F T T T T T T F F T T F T T T T T
10		TFFTTTTFTFF-FFTFTTTTFTACDCCARC-CFFD9HAACPHDFCCFDC CC40HAADA9CH40D0ACCCCACCCA4C4DADADADAAD9ADAODHA3ACCD9 ADAACAH0AC3DDCCDC40H0AACDABFTTTT-FFFFFFFFTFTTTTF
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15		TEFFTTTTFFFTTFFTTTTTTTTTTTTTTTTTTTTTTT
16		II - T F T F F T F F F T F F T F - T F T F
17		T F F T T T T F T F F F T T F F F T F T
18		1 TTTF - TFFTT - TFF - TTT - TACC + N C 44 5 C C 0 4 4 C 4 5 F F 1 A D C 9 4 C 4 4 A C 10 C 9 4 C 4 4 A C 10 C 9 4 C 4 A C 4 C 4 C 4 C 4 C 4 C 4 C 4 C 4
19		T F F T T T F F T T

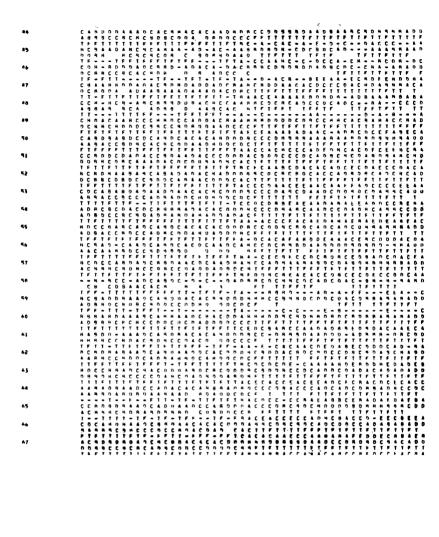
CORPORTON TANTO OF A A TACTRCTAR - CC - ODTCCT A A TOCT COTA A HTCOTON TAATA OF A OTHOTA CTCOT | A C F = A T D C F 4 C F D C F D C F D C F A C = D C F D C F A C F A C F A C F D C F D C F A C F D C F D C F A C F D C F D C F A C F D C DCTCATDDE0CFCAF0HTDCTRHTCCFDCFC0FCDCTCATCDFDCTCOTCOTCOTAOTOATCCTACFDAF 在村下月の年で出てる村下在村下で好すのですとれてあり一点点するですでしてるれてではてることでしてる。 てきりてんだしでいる あじておける おす AMPCHECAFCHTCHFCAFCAFCAFCC+CCFC9F-AFC4FCHFCAFC4FC4FC4FCH+C9F4HFC4TCHTCHFC4F DCFD&TD&FDC=DCTOCFDCFDHTD&=RC=CACAFOHTHA=HC=HHHTDHFHHTDC=DAFDCFHCTDCTDHTDCF MAFBATB-TCCCCCGAEN-EADFHCFCAFCAFCAFCTF-D-CCFCOFA-TAAFAD-H---CATC F-DFCHFCOTCAF でりまりますでりすでりをでうたでりたちのたちのをでりたでり → → のをでり → 本かとでりてなりとでも → ののもじりとくのてなっていているとのも **むむてむりてものでものだものだちりだらりでももておりていっちゃかってもりてものだらいてものだらいでももにつけるもにおいたものにものがなっているのであっているのです。** りんどりょどりりとりりているではまたらくとりりゃいのといっという……ホーリー ているていいとう 4 …い … たっとていいというていっしゃっきゃ DCTD4T04T04TDCFBCTBCTBCTB4TDCTCCTBCTBCTBCTBCTBCTBCFACTH4T44T44TBCTAATBCT 40TBCTABTAATHUTAHECCTBCTHA-AHTAAT-A-113-A-11-A-10-A-1-A-1-A-1-A-1-CCTAATAH-1-A-1-BHT 在转换它与自然在经验的基础的还有的的表面产生的职程的职者或转换的一种是非常的职程的扩展在外面或的表面的是一个有效是在经过者的表面的外面的作品的作品。 超的电话 医阴极性血栓性血栓性血栓 医电线电极 医现在分词 医现在分词 医电线性管线 医电线管 医电线管 医电线性性 医电影 医电影性 医乳腺素素 CTARKOCKERFUCTROTFOCKOCKCC+ECK4CTK4TOCK4CKCCTTOCKCATOCT-CTACTKATCCTCCTOCCC CEAGCTONTOCTACTD9846640HTHH=HCTDCECGECGECGECGECGETOGTCGTTCGT=GECCECCECCEGGTCGTC **でおりりてもりだれりだけられてもりてものでものでものできりであるのでものでありてものでもの。 本本だらになったになられないになっている。** のおつりてありてこりてこらにありてありてありとうり一見りてありてここでもこのでありてこうにありてなってあってあってあってあってもことなりてこ HT CCTCHTANTANT CHT CHT HCT AN - AN TOHE CCT CHT AN TOHT AN TOHT CHT CHT AN TAN TA AF CAT CCT AN TO CT4CTRAT—4TC4TC9T—ATC9TACTCCTC4—C4TCCTCCT—ATCCTAHTACTC4TAHTACTACTCHTA A FECT COFCOFTO CE A A FOOT A CETACENCE A CETACETA A ENCLACE COFT A A FACT A CETACETA E FA 网络森巴丁科林丁森特丁的西萨亚森丁森约萨巴约萨阿森萨的巴丁约巴巴巴一种西州斯亚森丁的北部西非洲亚森特斯亚克丁的西丁的北丁的水子巴约一种 **りまおもすもりももみずりのでもりてすのもてものでもみぞもっておりずものもものでものできなですからうなてない** 0.下转点的长线的下线的下线的形式的下线它下位的下角的卡特它下的它一定它下面一下的它的它也是有一个的下位的下线或下位的下线的下线 泰斯森特斯法律斯特的萨森特斯特尼亚森的斯森的斯林语名斯斯森特斯特 法一种的不同的第三人称形式的斯特的 人名英英格兰人姓氏克斯的变体 计分析系统 医克勒氏征 HTCCTHCTACTENTECTENTERTHA = FRTCHTENTENTENTCHTEUTENTERTARTECTECTCATHLTHCTENTC りょい おだをりてのすておりてどりても すてらをできてもりて じゅうじゅう しゃってのりていは ちらりてじゅ しゅうし しりょうしき ないしのし じりてい 林家满角中的海洋海巴萨约林罗特特的海州市通巴斯约特家约亚斯加州市 一种海际法国家法国家的海南的战 一种流化一种的现在分词 医电视反应 化三丁二甲酚 **以下我在下的时间已经了它在下程的下的在下户有了已在了它写了在"有了艺术"的在了户它了的在了户区子的对于在去了,在了户在了区域了区域**了 ハチのじずのあずかれてかりてみのすららずとのすのハイのハイカのずれりてののでものなくのあてものでのハイとあていらずらなて 双侧角管学者管学的现代表现于美国学科研究员的共和的工作的管理者将用用的工作的工作的对应的工作。 一切工具的工作技术的最后的职工 CTD4F04F4FC4FH6F4CFFCT0C=04F0C=CC=44TH4THCF40F4CF44 DEECTROTOOTHOTOOTOOTOOTADTADTADTADEECTTADTADTADECTTUATEO COTHA COECUTEO COTO ① 医电线医约约丁酯的丁属的丁尼约 医内部系统 医医皮的 一面的 美国的医院 医外医院的 计通信器 医动物 医过程测力 CEMCERCTBRIDCTBCTBCTBCTBCTBCTCCTCCTBCTHGTDCTKG==CFDCTBGFHHTHCTMCTBCT 用家庭用家外的家外的工程的下面的家庭的现在分词 医胸膜炎 网络丁巴林丁巴林丁巴特丁巴西亚巴林丁亚地名地名美国英国英国英国英国英国英国英国英国 "家巴约斯内林泰尼特和泰特斯斯特斯的特别巴约斯或利亚巴特斯斯特斯巴特斯巴特斯巴特斯巴特斯巴特斯巴特斯巴特斯巴特斯特斯巴特斯坦斯巴特斯巴特斯巴 - AFORTGATCOFCA - AATC **あつをこりをものすとのすをつすりかする** POREORFOTON F

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48 DCFD4FC4TD0FCC+CCTDCFC4FH0+4CFDC+D4FC01T0CTCC+C+C+CC+CCF04TC4+COTC4+ 08T0CTRATHCT-CT60T0CE38-49E8CTDCE48-100T0CTHCE4CT0-60HT4CTHC60C-44T04T0-HBT84T48FC9T09T09TART # UFU OF OATO C = A C = O OFO OF A OT A OF C OF A OT C O = O F A OT C O F C C = O A F - A = A O F O O = C C T C A F A O F CAFCAFCCFC4+CAFCCFC4F . 用FC4FC3FC3FCC+C4T4TAAFOHFCAFC9+H4FC4FC4FC4-C4FC4FC4FC4FC 有的下面的产业区,经企业种的一点的下面它下面它下面的下面的中面的一种的产生的产品的产品的下面它产,为产品的工艺的一种的人之的下面它一 经非常转换条件的 化非水杨 医多亚氏球球蛋白核蛋白生生性球球性球球球球球球球球球 计一种设计 计一种 医多种的医性毒素性现在分词 医经验性坏疽 9 CT 8 H T A A - D H = H C = D C T R C F D = F O O F O C F O C F O A = D A F O C F O H F O C F ORTANTH TAATA TECTADTEATRETACTACTACTACTOCTOCTCOTANT 4.0岁4.0岁6.0岁6.0分4.0分4.0岁4.0艾4.0艾4.0岁4.0岁4.0岁4.0岁6.0艾4.0丁4.0子4.0子4.0子4.0岁4.0岁4.0岁4.0岁4.0 在约7月月月1日已了在时下中,中也叫下在村屋在一下山在下在在下在的下在西面在巴萨大约下在门下已到了在一下,也不有一个在在下在巴里的一个艺术的一个 · 机环接角管接角管照角 · 片,于我看了在约下来一下班的家庭场下来的下去看一点的了人在下去在下面 · 中亚一下在技术在在下记了一点是下去看了看的中 O CAD CAAAAA DA A CAD - AAD AA CAD CHADHA AAAA AA AA AA CO CO CAD - AD A CACHCOH AA HIDH HACE 的生物的生物一个国外的目光,一个工程的工作的是一种有关的工程的工作的工作的工作的工作,但是这个人的工作,也是这种人的工作的工作的工作的工作, 9 F 4 O T H D F 9 N - A D - C 9 T A D T A D T A D T C O F C O T E C T T O F C C T C O T A D T C O F C C T T C O T A D T C O F C C T T C O T A D T C O F C C T T C O T A D T C O F C C T T C O T A D T C O F C C T T C O T A D T C O F C C T T C O T A D T C O F C C T T C O T A D T C O F C C T T C O T A D T C O F C C T C O T A D T C O F C C T C O T A D T C O F C C T C O T A D T C O F C C T C O T A D T C O F C C T C O T A D T C O F C C T C O T A D T C O F C C T C O T A D T C O F C C T C O T A D T C O F C C T C O T A D T C O F C C T C O T A D T C O F C C T C O T A D T C O F C C T C O T A D T C O 各个种的学科的新企业生的CTNOTACTNC=40年COT40年COT40T40T40T46TCCT64F4CT4C=CCTCC=40F44T4C+40T3CF40T30ATA タナル ひとりこてどりてどりて れいてんり マーリをあり 一てりゃうり 一点のてがりをどりてゃりてゃりて 一の てじょてのどをりり 一をりてこりて 9010010 医巴森特克森特氏 经已存款 医阿巴氏征巴拉氏征电视检查检验检查巴巴氏征检查检验检验检验检验检检巴巴拉巴克拉巴克拉比亚克斯亚斯巴巴拉斯西斯地名 HEPHEDOFAH DATECTHOTOATECTEMETOC-FORFOCTEOTECTALTMO---FFCOTOCTCCTFUTDATDOFA OTESTED TEST OF CO. COTACTO. FROTOSFCCTSCTOST TOST COTRETO. THE CTARTAGTER FOR A CTACFA # T C O T # C F 9 8 4 TECTCATCS 每下卷椅下C与下在技术区写下在C下C技术在每一区与下区与下C与下一线——对于一C下在对下区区下区区下区区下区区下在时下在技术——对下中科学通报学区 DTC0TADTC0 AD C09FABTAD=C4TCCTROFC0=E4TDATC0F=0TC0==0F=4 ADFC0==CCF=0T#4=A 多生的生态的产品多生态的,一切不够的生态与一种设计系统一的对于意识一位企业会会生态的产品会计划的工作的表现的产品的产品对于在对一种多种基础的一种 经产品业务业的的一名,在这一中的产品的产品联系中的工作者产品的产品的产品的产品的工作人,一点产品的工作的产品的产品的产品和产品的产品的工作。 巴里西托丁尼亚丁尼亚丁尼州丁州村丁科林了巴州丁尼州丁尼州丁尼州丁尼亚丁尼。 小医师下口点下口巴掌医师掌科的一种外丁科州学的巴里斯亚丁巴克里森亚里亚 の工具に下に出たり、ヒーでおりてもにもままりのできりで見りてもりてもりですらりていりても、でもりてりりてもみをもりってりをいりですねでする。 特定的特殊的表现实现,当我,约该是约特定在,我们也在它特别是对于约克尔士法院士林士区法院会对你们的人们也会们也然后法院区域中的特殊,他们也是 4.ておりずをどてからさひどてるおさひじてのりてを以下のなちを中でのりておとてをみておじてを写ての、 チョットのってものてものでもりをりまがりす . 0 A T C A F E D T A - T C A T E A T E C T H A T C A T C A T C C A T C A T C A T E C T E A T C C T C A T C C T D A T C C T T DATAATOMTUSTFATA TOMTEATHHTOATMMENATAMITOATOUITCHTA DCTARTOUTAHTAHTDHT-ATABTOHTAA--MTECTOUT-HTAHT-HTOHTAHTOHT-CT-WTC-WT-19 种子在用于特在下巴,下巴在下巴马下将17 下巴马 中在用下巴巴下巴马下巴马下巴 一巴在下马 在下巴马下巴 的复数 医甲基丙基氏 BRT-CTCHTCGTTBCTCGTFCTCHTENFAATHATFCTCG-FCTCCTCCTCGTCHTCCF+CTECTT 73 CATHAT - TRATHATHDTAATCATCATHATHAT 71 THE CHOIF CAFOATAATOCIOST -TCCTA--HATHSTCOTAAFAAF 4 TOCCONTACTOATRACT ATHATCA - ADTCATCAL

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一般的工具的医门内医院内医院的医院内生医门下角的基础的医院的一面的医院医院的口下或的一种的医院的一面的一种的医院的一种

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	A O R B B D B C O C B D A A B D C C A D O D B C C F F F T T T T ~ F T T F T F F T T F T T T T
43	
••	A C 9 A 9 C 9 D 8 A D D C C D A D 9 P C C T T T T T T - F F F T T F T T T F T T T T
94	TF = T = TT = TF FF F = T = TT = TT TT T
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٠,	AD98C8AC0C9D0-4CDCDD4ACB8TT-TTTTFTFTFTTFTTFTFTFTFTFTFTF
94	TFFFFFF = = TTTFFTFTTTFTFTRCDAECCOECEAHCHAECDAECBAADA HCCCHCROCACCBOCADADHCDDDADRDDBCDDAABCADCDBRDBCDCDD
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97	F T F T T T F T T T F T T F T T F T T F F T A D C C A E A A B E A A C A B A E D C A C B C D A 9 D B D D D D A B C D C C D H C A H D C D C D D A H H B C A C C C B 9 C D D A D B D D D A A C B C D H
•,	0084840CCC8048CCC94040049CFFFFFFFFFFFFFFFFFFFFFFFFFFFF
	TTTFFTTFFFTFTTFTTFTCFAAAABOECABBOBAAOEDDAADAAB
40	C A D D B C D D A M A C M B A A M A M A D D D A M C C D M D C B C D C D C D A D C D A C A C A A D A A B M D A B C A D B D B D D D D B M C A D A B D F F T F T F F T T F T F F T T F T T F T T F
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191	CCOCOCHOCOCADO O GACACOADADAO GCO A GA A DO DACRA A MANCOD DDRAMCHOM CHOMCCO - BOAD - CACTTEFTTTTFFTFTFTFTTFTT-TF
	TFFTTTTTTFFFTTTT-TTFTCDBAAEACAAADHAAADDEEAD-BA
105	B D C D D D B D A B C A B D A A C A C A H D D D C A C F F F T T T T F F T F F T F T T T T T F T
	TFTTTTTTTFTFFFTFTTTFFTAACCCCCCCAADEDCAACDDCECDEAA
103	A C B O D C H D A U C A S O A A C A C H S O R D R C C C D S S S S C A A D C D D R S A H A H S S A D D A A B B B C B D B C B D B C A D C B D B O D C D C T F T F T T T T F T T T F T T T F T T T F T T T T F T T T T T F T
	TF-TTTTFTF-TT-TF-TT-TFTHACOCCCCRAEEHHCEHADAEDAEBA
104	B D A D D A R D C D C A B D C A B A C A B D D A R C B C D D B D D D D D D D C D B H A B C B C B D A A B B C C D B B C B D A C C D D B D B D D C C C F T T T T T T F F F F F T F T T F T T T T T T T
	TFFTTTTFTFFTFFTFTTTTTAADDCACECAAEEEBECRADCCHDERA
105	8 0 8 0 0 0 4 4 4 4 0 C 8 8 0 C 4 4 4 C 4 4 0 D D 9 C 9 D C 9 D C 4 D D D 4 8 D 8 C 9 8 A H A D D A D 8 D H C 9 D C C C C D C 4 C 4 C D R D 4 A D R T = F = T T = = F F T F T F T T F T T F T T F T T F T T
	TF TT - TF - TF - TF TF A C B A C C A C E C C D C D B C C C D D C E H F C D A
106	H 9 N C D D 9 A C 4 C A 4 D D A C A C C 9 D N D A C A A D 8 A 9 D A C D 9 A D 9 D A A 8 A D D A A 8 A C C 9 D 8 C A C A C D D D A D 8 D 0 C A C F T T T F T T F F F T T T F T T F T T F T T F T T F T T F T T
	TFFTTTTTTFFTFTTTFTAACCAACEACCECARACHADCCDCECC
167	CCBADABAADCARCACACACAD D D A H C C D 9 C R D C A D H D D A C D A 9 H H A C D H C B - B D B D B C B D D C C C D - D B D D B D B T T T T T - F F T F T F T T - T T F T T - T T
108	8 7 M 7 D 7 D 8 D 8 9 D 8 9 D 8 9 D 8 4 8 8 6 8 M D 7 D 8 M C 7 C 8 9 M P 0 4 8 D M D 4 8 D M D 4 2 M C 4 0 D 4 C 8 8 C 8 8 D 4 C C D 8 C C D 8 B D D D D D C C M F F T T T T T T T F T F F T F T T F T T F T T F T T F T T
	TFFTTTTFFFTFTTFFFFTÅAHDBCCEBCAEDAHABCEECCCDCDC
109	CAC-BCBC-DCBBDDACABODDACC-DBA-DAAD-DBBBBABADDABBB D CADACAC BADDDCCBFFTT FFTTFTF TFTTFT T
	TFF-T-TFTFTFFTAACE-E-ABABAEC-DEEHBA
110	ROBORD COCREBANCACACAAADABCDCOCCROCCCCCAACNAADARCDA CCBDBABORD ADAADHOND CACCBCTTE FT TTF TFTTTTFF
	TF TTFTFFTF - TFFF - T CCEDACEECREERBCACC - AACFAAAD
111	CDADR-8-ADCR84DA4DDC-CDDDHHCC-8AADA8HHDRCD-CARBCC-8 AABHC 9DH AD8 D DDADACBDTFFTTTF FFTF TFTTFT
	T - F F T F T T T F F - T - T F T T - T A C D - H C A E C C A - C A H A E - A D A C D D E D C
112	8 C 9 O D O H A A D A A H O A A D A C A H O D O H B B C O B B C O C A D B C A C D B A H H A B A D D A B B B H C B D B C B D U C O D D A D B D D C C C F T F F T T T T F T
	TFTTFTTTTFFFT-T-TTTTFTABACACAC-AEDDACCADAADEDAEBB
113	H = C D D A H A A R C A H D C A C A C A B D D A B B C = D H C B R C C D C A A A D = H C B H B A D D A C R B C A D B C C B D A C D D A A D = D B C D C F T T T T T F F T F T T F T T F T T T T T
	T T F T T T - F T T - T F - T F T T T T
114	8
	TFTFTTTTTFFTFFTFFTBCCDCCCEAAADEACCCCDDCENOCBC
115	A C B A C A B A A C B Q A B B D A A D D D D C C C F F F T T T T F F F T T T T F T T F T T T T T T
	Р Т Р Т Т Т Т Т Т Р Р Р Р Р Р Р Р Т Т Т Т А А О О Г С В В С А В В Н В С С О В А В Р О А С В А

116	а А 9 D D C A A A D C A 4 D A A 4 A C A.C O D A H C C C D D C C H C D D C C A A D D H 4 H A H L Q D
	ACRB 4 4 4 0 H C C C D H C H C D A D D D G B A D C F F T T T T T F F T F T T F T T F T T F T T F T T F T T F T T F T T F T T F T T F T T T T T T T T T T T T T T F T
117	СИНСЯСА 4 С ОСО НО А 4 С А С А С О П О В С И В О В В В О С С О С С О С С О С С О С С О С С О С С О С С О С С О О О В Н С В В С В С В О В С О В О В О В О В С В С
118	ТТТРТТТРРТРТРТТТТРРТТТТРТТЧСВ — САСЕССАНААВСЕВСВАСОВАЧА НСВОИСНОЧССАСВАОВАСАСО ОВАЧНОСЯВВВВАВОСОСВОЯОВОССАРО
	ACH UDCUDCO AD ACAD AD ANCOCOCETETTTTTFTTTTTTTTTTTTTTTTTTTTTTTTTT
119	H C H A H C H D H A C A H D D A A A C A H D D D D H C C D A C B D C D D C D D C D B C A D B H A D B D A H H B C B D H C H D B C A D D A D C D D C D D C D T F T F T T T F T F T F T T T T T T T T T T T T T T T T T T T T
120	TETTETETTETTETTETTETTETTETTCAH-AACECAAAEAHARCADECDBECA CCHADCHACHDCBDCAHCCHCDRAGHCRDCABDCCDDDCACCBDHHBAHD
120	- А Я В В С С В В С С В Ч С Ч С В В В В В В В
171	1 F F T T T T T T F F F T T F T T T F T T F F C A E 9 H C A C C D D E D A H A C D D A D F C A C D C A D A D A C A A D C A H - A A C A C A C D D D A B B H C B D C - D - D A B D B D A A B A D D
	ACCBRAGCOCBOBC DO D DOCCCFFTETTTT FTFTTFTTFTTFTT TFTTTTTTTTTT-TFFIFT-TFTACA-CC48-AC40-CBA-AA
172	H D H D B = H = C H C A H H A A C D C A C D D D D C C D C B C B D C A D B D D B A B B A H H B A D D A B B B C C M D C C B D M C H D A D D D D D A C C T T F T T T T T F F F T T T T T F T T F T T F T T T T T T F T T T T T F T T T T T T F T
123	T F F T T T T T T T T T T F T F F F F F
	H C B A C C B C B C B C B C B C B C B C B
124	C 9 H 0 C 4 9 H 4 8 C H 8 4 C 8 4 0 9 4 0 9 4 0 9 4 4 C 9 C 9 4 C 9 C 4 O H C 4 C H D A C 8 H B C H D O C R H C 4 B D H C 4 D H A 9 D A B H A H 4 H D C T F T T T T T F F T F T T T T F T
	T T T T T T F F T T T F F F F T T T F T T T T F T C 3 A 9 C A E R C C A D H A C A E C A E D S F D A E A R C D D C C A A C D C H D A C C D A C H A A D D D C C A A C D C A B A A A A D D
125	
126	TEFTTTFFTFFTFTTFTTFTTFTACARDCBAECACEAACDEDEAECDCCA
	CO 4 4 0 0 4 0 8 0 C 8 4 4 0 0 C U A 4 H C D A D F T T F T F T T F T T F T T F T T F T T F T T F T T F T T F T T F T T F T T F T T F T T F T T F T T F T T F T C A E H D A C D D A C A A A A A E D A A D A A D A C A
127	* O C D O C B C D D B C D D B C C C C C C C C C C
128	A D C D H D A = A D D A B D C A C A C A C D D D H C C C D S B B H C D D B D D B D B B D D H B A D D
1.0	ACHBRCBDCCCDBCADABBDDDCCCFT TTTFFFT T TFFT TTFFT TFFTTTFFTCABD-CCEAFABLDBD-CDDCECBEDD
129	H O R D D D H C A D C C A C D D A C A C A C D D D H C C C C G A R D C A D D D A A D G G A B B R D B U A R R R H C G B A C G D A C G D B B D A D D C C C T F F T T T T T F T F F T F T T F T T F T T F
130	D D B C D D B D C A D D C A D D A A D C D A F F T T T T F F F T T T T F F T T T T
131	TETETTTTTTTF=T=TET===TTT===HAAADAAAAFAAAC9EACACDDAACCCDACOC==ADCAADAADAAAACACDDAACCDDAHADACOCDGCDACO9CBR=BADD
	AANACCOCCANDCHOCDDO9 C CFT TTTTFTTFTTFTTFTTFTT TF-TTTTFTTFTT-TFT-TTTTTANDBABHECCADDAH-ACADCEDBCCA
135	-CHODARD COCKERA A CACACODA A CRODA RESTERENTE E TETTETTETTETT.
133	TFFTFTTFTFFFFTTFFTTF-TCEAF-ADDFFADHDACEAAAEE8AEDA CDHDADHAHCAHHAADCCACADABCDDDBCBDCADOCAHBBBABBHADD
	DOBACCADICADARO BOAGOC CET TITEFFE ILFIFILE
134	CCBARCRACRCADRACTDORCOPORCORDOCCCACLEDRASANCADA
	TTTTETFTTEFFTTETTTETTFTACDAEACEBCBEMMCMMSADUMUMALM
135	ACHHCC909C40NACRNAND40CCA49FTFFTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
136	H C H A D A H A A D C C B C H A C A C A C D D A H C C C D B H C D C A D C D D B D H H A B D B H D D C
	ACRICE HIACONS CANCAU AND AND AND FERCE RECEASED BAECODE CONERSE
137	ACHD DHE AND AND ACCOUNT OF THE TEXT FIRTHER TEXT FIRTHER
178	данання в спссыра в сверопрассеря свестре светре сранраварь
	AABH CBOBCADHCOU HO DOCBCE T TITE TITITITITITITITITITITITITITITIT
1 19	BHHAAAR-COC-DC-DACACDDDABCCDBCBDCADHDDCCHMAAANL-
	T F T - T T F - F T A - B C E C A E C - A D C A C - D A A B C C A

140	ADRICE TO A CROADE AND CACCACO A CROCK CONCCODACO O DICTORIA DO CHARDO ADRICE TO ACROMENTA CONTRA CACCACACACACACACACACACACACACACACACACA
141	BCCDBDMAADCABDACCACBADAAHBCDDBDACACDBDCADCCABABCDC ABBDCCAAADADAC DDBBDCACOCFF TTTFT F TTFTT T
142	T T T T - F T T T F C C 9 C A A A C A E E C F 4 H A E A D C H Q A H D A A A D C B C D A B A C H D C C D A B C 4 D C D D B A A C D A C A D C 3 D B A C B D C A D B C A D C D C T F F F T T T T T T T T T T T T T T T T T T T T
143	TFFTFTFFFFTTFFTTFFTTAEAAECCEEACAAAAACAAAFAEACAA RCRANC9AAOCAOBAABACBCOOCHRHDACHOOCDOBOO9DAACHCHCA ABACC9OBDADBAADDD599DOAH
144	TF = T = TT F = = = = = T = = = = = = =
145	TFFTTFTFTFF-F-TFFTTTT44CCCAEECC4EAC4FEC9FCL0004A A09000C-C0CA900ACABAHD000CCCD9490CANCCCBCR-A-A4400
	ADBRCCBDBCBDBC D BODDACDCTTFTTTTFFFTFTFTTFTTTTTFT
146	B D B D M C B A C D C A M D A C C A D M C D D D N M C D D D C C D C A D D D C C D C F T F T T T T T T T T T T T T T T T T
147	TETTT TEE T TETTA A A CCAEN A CCAEN A CCAEN A CCAEN A
	ACBBADBCOCADBHDDORDADDCAHFTTTTTFFFTF FFFFTFTFTFTFTFTFTFTFTFTFTFT
148	A A B = D A D D C B C B B D C A B A C B C D A A B C B D A A C C C C D D B D D = D A B D D B D C B B B D C A B B D D C T T F F T F T F T F
149	TFTTFTFFTFFT
	RCRBCRRCARONCODDRRRADOCCCTTE F TETTETETTETTETTETTETTETTETTETTETTETTETT
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162	TFFTFTFTFTFTTFTTFTTFTTCC0AA040CCC0999AAAE9998CHHAHAC09999AADC8C88DAACDCACDHOOC889DA9CDCANCDCCANCDCCANOD
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163	- C D B D D D D D C A B A D D C A C D C D C D D D B C C B D B B D C A C C D D B D C M A B A B A D D
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尼州萨福格萨特奇萨奇的萨列岛萨奇奇尔奇特尔西班牙利的萨马萨斯特尔巴马萨科特尔巴马萨科特尔西哥 "这世纪时间的是一种人工的话,我们在这种事态度的 CBTDSTDSTDSTCATDATDATASTAATD TDSTDAT-STDAFAS ABTABTCCTCATCHTABTCCTAHTAATADTCHFAATACTABTCBT-BTCCTCATAC C9 CHTCD CATABT DEFDAFFORFORFORTDETDEFORTDETCETDETDETDETDETDAFFORTBETDETDETD TODFFORTBATDEETD T - AFBAFCOTAMFOCFCOFBOTOCFDA COFCAFDCFCCFDCFCCFDDFDAFACTCDT-CTCCTDCTDDTDBFC4F ひめてもじてした ACTDCFDCTDCTMCTDCT・HTDCTDCF りゅうしゅうしゅうしょうしてもちてん DCFSMPEOT BETOCTOCTCOTOCTCOTCOTCOTCTH TACT-OFCCTCCT-CTAATCCTAOTAOT-CTAATOCTOSTACPECT ·日本了自办了书书下点书下的书本书书了目标了特殊了的孩子的名字的书子的书子的书子的书子与书子的书名的产品的产品的产品的书书的书书的解学**的数学** ADTODECO DAFADEAD ODEADEDOFOSTODESOTADTABEDOFSSTADTADES TEREADTSOTADE DCFDCF0CF84FDCF8CF0CF0CF0CF0CFHCFHCFHCFHCFHCFBCF9CF9CFDC COTCOPICS COPICSFCATCOPICSFCSFCCTAR AAFCSFCSFASFCA 84F88F88T88F48T88F98F84TH4 OCTOCFOCTABL DEFORTORFOCTOCFOCFHBFOCTOCFOB BEFOCFHATDAFDAFBAFDAFEBFCAFBC 在约伊森口产在门,在它产业与产业口,在门产业门下在日产业门,在日产与门产业门产业门,并行下海内产业的工业门产业门产业门产业区产业经产业经产业 COFCOFCOFCCFAAFBA ADT CATADTABFASSA STACTADTS COTESTED COTES COTES OF CAFES OF CA COTA TESTED FOR COTES OF COTES 405 605 401 601 601 60 DD DOTOD DCTODED4 有器晶形 科马巴亚亚巴巴森巴西科巴约亚巴亚亚巴西特巴西州巴约特特尼西约巴巴特巴 特内亚科巴亚科巴亚科亚巴科巴西科亚科巴巴马特 与力导力之力 CTABTORFARTESFCOFOCTOCFOCTOCFOCTOCTCHTCC DCTARFACFDCFACTACFACFHCTRHTAHTAC 9840FCDFCDFCDF40TDDT4DF40E40F 0F00TDCTCDF80FCCF0CTCOTCDTCDTCDTCDFF0DFCDF40 F DTADTACTED COFCOTADFCOTADTAGFCOFACFDD COTADTCD CAFACTADF OFACTADTADFC 多丁森林丁特在下在村下在月下在月下也与下在月下也可下也用下的日本在下在在下在在下也与下也已下也用了在日午时间下去一斤马的干债息下路在下几 DI DOTODI COTADI COTODI COTODI 的工物的工艺者工程者工艺的工程也工程者工程的工程的工程的工程的工程的工程的一级的工程的工程也工程的一块它工程用产品的产品的工作的工程 RTARTCCTRATEMIFFOTEMICHTECTEMIFEMIFEMITEMITEMIFFMIFFMIED FOTABT DICOTEDIBLE COLEMNICS TANICOT OF COTHOICOTCOTCOTABT BOFON BETBAFBOT 明书约号书艺者书者已书门班书门特书书的书法联书记号书书号书书记明书书记书书书记书书稿书门林书法门书艺法:门书书艺的节点门书 OFCOFESFC4FE4FC4FE3FC8FC5FC5FE5TC4FE8FE4F44FC4FC5FC4FC5FC4F. 8FC4T44F. CFH8FE8FC HTDRTARTHRTARTARTARTARTRET OF DYTARTARTARTCHTARTCHTARTCHTARTCHTBC ARTHRTART CFAAFFATHCFEAFCATADFAAFCAFEAFDCFDAFECTEAFEAFCDFE4F-AFACF C AA DICOTCATODICOFROTACTCATAB CUITADIADIADIADICOTUBLICOFCO BO BFCDF4DTCDTCDFCD CCFEDTCDT4DFCDTEDTCD CDFEDF4D COTCDTAD AFDAFDB おどれじたりじ みけどありをふじをふじをふりをりのをふりとりできるじゃりじゃんじゃじりずりのどのじゃのでのじゃもりぞんじゃりじきじち DECAFAC AC ADEAAFAAFADECCE DENAFCDFADECAFCNEDNECNECAFNC STEBTEATECTEATECTEATCATCATECTCSTCSTCSTCATCATCSTCATANTCSTECTCTTACT HTD=TBBT 移生物点于它对于的点于日本于医特色或的生命经生物已生产对于它科生态已生的的生态对于的生物的生物一生的生产的生态或于成本生物已生物的生物 TESTOOTCATASTCATSATCOTACTOCTACTOCTACTOCTASTCATACTA TCOFSATCOTCATAMPA T TARTHATARFUDTES SATADIAS CAFBCFEBFCCFAAFAAF AFACFCAFACFBAFCAFACFACTAA BAFBOFCCFACFACF E 明了点的手机点的具的工作的工作,仍然不可有的自己的工作。 化多元素 化二乙基丁基甲基乙基丁基乙基甲基乙基甲基甲基甲基甲基 HOTODFADFARFAOTCOTADTEDTADTADFEDTAD DAFCAFA のりをひりをひり のりをりりすのりをりの りりをいるずりりを一のをりりをりりてりててのよそりもをもち COTENT COFCOFCOFCOFCOFA OTROT -CTHOTA A FOOT CATCHT COFCOT POTHATRITHO C TAATAA AATACTHAFDAT"ATADTRAFAB DSTRA BSF48F5ATADTABTBAF5ATBBFD4FBATBBFBBB CAFDO BAFCAFO FOATC THOFOATT FBB ADFABRCCTARTADTACTARTCAFA **のFをりてCりすどのすどりすとりFADTEひすみりをありてのりてもりすじりすのの** ADTADE - OF ADE ADEBOF CHTARTD TEAFCA A A T C S T D D F A D T A H T A B • AFADE BEADEDAFE 0 RTAATECTEAFCO C CFDA ACFBA CEFCES - FRATRATECF EDT BCTC .T ACTEAFEC E READFOR 047887647 81667887 DIDCTDA ADFADT 005865

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71	60	34.	31.	42.	27.	37.	32.
73	64. 84	30	45.	49.	30	40.	30
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76 77	A4.	40	40	a 3	41.	ao,	55.
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*1	61 70	30.	31.	31.	30.	75	26
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95	77	38.	10.	19.	34.	44.	31.
•6		35.	11	33.	35.	35.	17
97	60.	33.	27.	27.	33.	31.	ż٩.
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1 0 5	94. A1.		4.6	9.6	43.	44	45.
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108	'1'	52.	59. 34.	57. 10	50. 32.	5A 34	51.
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111		34.	25	33.	24	43.	
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113	70.	41.	3.8	97.	51.	4^. 57	57
115	110	us.	49	2.1	41.	45.	10.
116	**	42.	4.5	" " "	4.5	41.	42.
117	71.	49.	35	90.	14.	15	τ.Α.
119	75.	41.	45	″1.	TH.	37.	39.
120	AA. 74.	17	10	36.	8.0	10	
171		an.		// A .	10	47.	
125		40	5.7	S. U.	52.	53.	53.
123	47.	**	47	45.	12	40	17.
125			3.8	3.0	n >	37	
126		30.	34.	20	1.6	4.5	
127	51.	25		11.	20	20.	33.
124	102.	51	52.	55	19.	47	47.
130		50.	37.	19.	27.	10.	57.
131	8.0	34.	44.	42.	38.	10.	41
145	u n	n .	42.	53.	17.	51.	10
133	a c	41	45.	95.	an.	49.	3.4
136	190	50	2°.	2h.	48	2	2A.
130	112	41.	10	54.	UR.	55.	47.
137	100	1.0	10	5.	45	51	47.

138	A2.	30.	41.	47.	35.	41.	41.
139	4.0	31.	29.	00.	20.	53.	37.
140	77. 53.	40. 28.	37.	72.	19.	3A.	žs.
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144		43.		47.	40.	GA.	41.
145	40	n 4	50.	51.	45.	47.	٠٠.
146	76		37.	49.	27.	47.	34.
107	80			42.	07.	44.	45.
148	64. 88.	35.	31.	44.	12.	45	33.
149 150		30.	35.	47.	18.	30.	26.
151	96		47	53.	0.2	Ś1.	40.
152		28.	34.	29.	37.	29.	37.
153		29. 35.	12.	>A.	33.	34.	25.
154		35.	31,	29.	19.	31,	35
155	A7. 74.	44. 32.	41	48.	19.	34.	19.
156 157	74.	50.	49	52.	47.	50.	49.
158	90. 7°.	19.	30.	45.	31.	47.	41.
159		45	47	53.	19.	30.	un.
160	106.	51.	55.	51.	54.	52.	54.
161	84.	43.	41.	05.	61.	40	17.
145	60.	24	34.	32.	13.	31.	31.
163 164	101.	a 3 .	50.	56.	45	54.	47.
145		47.	52.	5.6	43.	9 A _	67. 51
166	75. 77.	36	30.	45.	30.	40.	34. 35.
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148		47.	51,	54.	84.	41.	47.
169	88 79	40.	30.	50	29.	40	14.
170 171	105.	40.	30.	59.	an.	51.	E 2
172		35.	37.	3.4	Za.	40	12.
173	40	40.	47.	0.8	A M	52	32 40 20
174	77	37.	90.	45.	١٧.		<i>γ</i> ο.
175	99.	47.	52.	57.	n7.		51.
176	94	51. 41. 30. 52.	47.	50. 51.	00.	\$2:	44.
177	91. 7A.	41.	50.	10.	10.	50. 40.	Į.A.
17A 179	103.	52	51.	5.A	75.	5.0	45.
180	68	35.	31	7.1	30.		20.
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184	53.	35.	<u> </u>	79.	30.	36.	(i):
185 186	۸۰.	30.	35.	31.	RA.	35.	40.
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188	104	45.	aR.	34.	90.	4	40
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191	70	34		42.	32.	an.	3.1
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195	74.	34.	un.	7.6	3.4	10	47.
196	67.	17.	30.	10	28.	12	25.
197	95.	44	47.	47.	24	40.	17.
198 199	70. A1.	35	35.	~?. #0.	32.	45.	46.
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245	67	34.	11.	31.	30.	44	11.
2^3	87.	42.	45.	51.	lh.	45.	۵2.
204	AS.	43.	42.	50.	15.	45.	
205	97.	46.	41.	• 0	11.	40. 31.	
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210	100.	aA.	55.	57.	^7.	49.	55
211	AT.	42.	41.	42.	41.	a .	an.
212	55.	30.	25.	31.	24.	32.	23.
213	91,	49.	42.	47.	nu.	46.	45.
214	.70	24.	45.	45	21.	30.	31.
215	A5.	40.	45	50.	35.	43.	42.
216	70.	34.	34.	<1.	23.	an.	50.
217	97	43.	44	51.	48.	54.	45
218	42	34.	40.	42.	30.	42.	40
219	41	30.	un,	23.	an.	41.	42.
220	90.	u^.	50.	~7.	43.	40	50.
221	100.	.00	54.	56.	44.	50.	50

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à	43.00	4.00	7.00	
5	21,00	4.00		
ì	54.00	2.00	11.00	
	55.00	5.00	15.00	
7	54.00	2.00	17.00	
R	57.00	1.00	18.00	
0	54,^7	2.00	50.00	
10	50.00	3.00	21.00	
11	-0.00	4.00	27.00	
12	41.00	1.00	30.00	
1 *	~>.^^	1.00	31.00	
14	W. T	3.00	\$7.7p	
15	~~~~~	4.00	39.00	
16	A4. ^>	5.00	43.00	
17	44.00	4.00	51.00	
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21	70.00		71.00	
22	71.00		77.00	
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20	71.00	1.00	83.00	
25		1	23.""	
	74.40	2.00	A0,00	
24	75.00	4,00	97.40	
27	74.40	*.00	101.00	
5.	77.00	9.00	112.00	
50	74.^^	4.00	114.00	
30	70.00	2,00	118.00	
31	80,00	5.00	120.00	
3>	81.00	3.00	123,00	
31	A2.00	4.00	127.00	
3.4	81,00	5,00	132.00	
35	80.00	3.00	135.00	
34	85.00	6.00	141.00	
37	84.00	5.0^	144,00	
3.0	A7.00	8,00	150.00	
30	88.00	6.00		
an	80.00	4.00	160.00	
41	90.00	3.00	107.00	
42	91.00	2.00	160.00	
43	92.00	3.00	172.00	
00	90.00	7.00	170.00	
45	95.00	4.00	183.00	
44	94.00	0.00	180.00	
47	97.00	1.00	190.00	
4.8	94.00	3.00	193,00	
40	90.00	7.00	200.00	
50	100.00	4.00	204.00	
51	101.00	****	205.00	
		1.00		
52	102.00	2.00	207.00	
53	.04.00	3.20	210.00	
54	100.00	3.00	213.00	
55	105.00	1.00	210,00	
54	104.00	4.90	214.00	
	111.00	2.00	250.00	
57 58	111.00	1:00	221.00	

AMALYSIS OF VANTANCE TARLE

SQUECE OF	ENEEDING BUTTER	DEGRRES OF	EDBUR MERNEMITERS AVBIVALE BULL	n
EXAMINEES	373.4AR2	220.	1.5150	7,9025
****	1714,1523	149.	11.5044	60.6502
DEMTINUED	4217.0195	12780.	0.1897	

RELIABILITY OF THE TEST

1. SPITT HAT VE	DEL TERTETTY		
Upp-tate, shill	T 0.8084		
RANDOM HATE SE			
FIRST-SECOAN (
2. SPEARKAN HRO	"" WOLF TEST PRIJONILITY		
ODD-FAEN ANTI	T กูลจอก		
HANDON HALF ST			
FIRST-SECTION			
4. Siff Uil Fußmin V	HE OFF TANTETTO		
Upp-EAF# dbi I.	0.4907		
HANDON HALF ST			
E 1841-4E [040)			
A. FI ANGANG FILOM	LA OF HELTARILITY		
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JUD-ENFW SELLI	0.8907		
SE TIME ALLUNAR			
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RELIARTITY RY	ANTSER SHORT OUT METHOD (.8080	
RELIANTITY HY	ED UM 314 HAU WAL 314 I WU	0.4749	
ANTHER FORM OFKS	2-20 FORM	0.840#	
DEI TARTLTIVHY WH-		0.8404	
CRONBACK COFF ALE		0.8749	
	PAT F OF EVAN RELIANTITY	0.90	17.
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THUER US NETHER		4.8940	
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REI IANTUTTY BY ANALYSIS OF VAN. 0.8789
TUCKER MODIFIED K-B FROM. 0.8769

ON, WE THOUSTUC WEAR ENTETTY PACTITIVE DISCRIMATION VANIANCE OF THOSE TH

		74.601A				
;	100.0000	PAFLIT	0.5121	0.201390	0.249135	
ί.	100.0070	54.5744	0.4475	-^.C##746	0.238693	
ì	100,0000	19,8507	0.4744	1.13550Z	0.207412 0.209585	
-	100.0000	\$8,5113	0.4811		1.209521	
	100.0000	27.5454	0.3075	1.14941n 1.122010	0.218954	
7	100.000	51.0134	0.6525		2.237710	
Á	100.000	25.5032	1220	1.457627 1.101695	0.21474	
•	100.0000	45.0317	1.512;	1.110001	0.248157	
10	100.0000	28,4794	1720	-1.047894	1.22968#	
11	100.0000	1410.54	7/16	1.160701	1.172560	
12	100.0000	26.3420	0.525/	1.4/7945	0.246152	
13	100.0000	AL 9638	0.8220	1.220139	0.139391	
10	100,0000	54.3520	1.44.0	1,202100	1.219452	
15	100.0000	19.7717	1.2427	-0.050887	2.180195	
14	100,0000	64.7014	0.4051	1,248176	1,110177	
17	100.0000	14.7040	4015	1 5 10 475	0.247743	
18	100.0000	52.5117	0.6102	1.111678	0.232182	
10	100.0000	AU ORIO	/171	150012	4.142149	
50	100.000	51.7717	0017	1.238136	1,232145	
21	100.0000	13-0095	15.25	-1.5-7797	1,119191	
22	100.0000	72.0501	0.4722	1.250217	0.000007	
23	100.0000	59.7A02	0.6525	1,220410	101507	
50	100,0000	45.2762	1.5260	1,345085	1,217242	
<u>ک</u> و	100,0000	15,4200	1.1000	4.126441	1.144234	
26	100.0000	17.627.	0.5942	1.15084	0.202091	
27	100.0000	48.4561	0.6344	A 4 4 6 7 2 1	1 2 to L (E	
54	100.0000	34.1357	0.4015	1.11625	1.249135	
50		41.4891	1.7427	203320	0.179931	
30	100,000	54.5240	1,1354	A . 28813h	4.211257	
31	100.0000	33.6014	2.4407	17-576	FPARTS	
32	100.000	53.45A6	0.0017	0.550377	0.210951	
11	100.0000	56.1900	1,45,25	1,20011	1.21475F	
30	100.0000	25, 2727	0.5500	-1.014989	1.204426	
35	100.0000	17.4797	0.4153	1,22110	0.208157	
ĨA.	100.0000	40.4163	1.7542	155912	0.164820	
37	100,0000	20,2021	0.149#	0.191695	1,271741	
3.6	100.0000	8081.40	1.5743	0.508474	0.247723	
30	100,0000	11,0005	1,3720	1,111605	1.234454	
40	100.0000	40.1946	1.4591	1.5.12173	1.2/4545	
41	100.0000	42,4220	1.5007	1,322034	0.229684	
60	100,0000	7A. 7751	1.5474	1.525924	1.241731	
41	100.0000	14.2540	A 481	1.121720	0.204026	
40	100,0000	43.0000	0.5A7A	118604	1.20RB4B	
45	100,0000	10.8507	1.1525	-n. A3389A	0.117319	
44	100.0000	40.7447	0.525#		0.240872	
47	100,0000	49.4478	0.7110	^.1/2981	0.101397	
4.8	100.0000	07.45 AN	0.5762	1.105025	0.292215	
49	100.0000	41.6417	1.6840	4. 2441 14	0.182306	
50	100,0000	70.4790	0.8305	1. 105085	0.110645	
51	100.0000	57,1111	1.7030	4.122014	1.204455	
52	100.0000	27.2308	0.3640	1.11*444	1.222721	
51	100.0000	77.0000	0.0744	0.040847	0.026412	
	100.0000	57.4010	1.4040	1.271184	0.201612	
54						
59	100.0000	24.0045	A.57A1	1.237288	0.214152	

	57 58						
	5 R						•
		100,0000	70.9050	0.8475	4,155501	447901.0	
		100.0000	47.1357	0.567	0.427119	0.246801	
	50	100.0000	14.7492	0.5254	1.169491	0.249872	
;	60	100,0000	#6.842% #0.85.ch	0.7712	0.3A0A30 0.33A9A3	0.14R23A 0.249R72	
	62 61	100,0000	45.7330	0.7797	0.202100	0.148236	
	63	100.0000	50.1122	0,6102	0.470576	0.238693	
	64	100.0000	16.0271	0.5678	0.401017	9. PARPUR	
	65	100,000	71.6063	0.2288	0.050807	0.197785	
	66	100.0000	59. AR60	0.7661	1.177014	0.195696	
	67	100.0000	29.4460	0.3814	1. THORTO	0.224439	
	6 A	100.000	14.8716	0.2288	-0.01.444	n.15392A	
	60	100.0000	2085.04	0.4525	0.427119	0.201839	
	70	100.0000	19.9868 61.0818	1.7288	1.3050R5 1.50R475	0.177515	
	71 72	100,0000	50.A280	0.5763	1.574271	0.239435	
	73	100.0000	51,4704	0.5932	0.406780	0.235422	
	74	100,0000	28.4507	0.3644	1,491525	0.221204	
	75	100.000	53.1041	0.6271	0.115593	0.222723	
	74	100.0000	46.4005	1,5763	0.202390	0.243730	
	77	100,0000	75.4733	0.3475	-0.050847	0.22120#	
	7 A	100.0000	36.2470	0.4722	-0.016000	0.208152	
	79	100,0000	24.9724	0.3640	-1,152502	0.219652	
	R n	100.0000	64.0541 65.7195	0.7881	0.72274	0.167441	
	81 82	100.0000	70.8100	0.9153	^.#23729 ^.145503	452001.0	
	ÄR	100.0000	27.0407	0.3720	1.247284	0.219652	
	84	100,0000	46,0224	0.8220	1,288136	A. 14823A	
	85	100.0000	14.7692	0.4574	0.033898	0.245495	
	86	100.0000	23.9960	0.3220	0.033898	0.209455	
	87	100.0000	45.1402	0.7797	1,115503	0.151103	
	44	100.0000	40.3575	0.7288	0.372441	0.195494	
	av a	100,000	40.0501	0.6864	OFRORF.	0.101397	
	91	100.0000	72.2036	0.8914	n.201300 n.421720	#£40°0.0 405581.0	
	97	100.0000	4.8191	0.0763	-0.152542	0.067157	
	91	100 0000	1.0005	0.0592	-0.014949	440050.0	
	94	100.0000	78.4571	1.9831	APAFFA, A	0.008058	
	95	100.0000	72.2080	0.8559	0.220339	0.089648	
	94	100.0000	74.9912	0.9744	-1.114909	0.047294	
	37	100.0000	72,3213	0.9068	0.186481	0.080638	
	9.8	100.0000	51.0724	0.6354	0,186461	0.513340	
	0 v	100.0000	59.9050 31.8010	0.72AR	0.101695 0.559322	0.149185 0.230953	
	01	100,000	70.9321	0.8898	0.186401	0.101806	
	0.5	100.0000	48.6294	0.503>	0.574271	0.245081	
	03	100,000	07.7166	0.5591	4. 105045	0.242091	
	0.0	120.0000	57.604A	0.6860	A. 7881 To	0.245720	
	05	100.000	17.5204	0.2502	n.n	0.172560	
	9.0	100.000	73.5249	0.9574	0.050887	0.067157	
	07	100.0000	50.1470	0.5847	1.474474	0.240536	
	0 A 0 B	100,0000	4.374#	0.4153	1,157542 -1,135593	0.242215 0.059335	
	10	100.0000	45.0201	0.7881	O. SHONE	0.177515	
	11	100.0000	12.3080	0.1864	0.067797	0.127024	
;	12	100.0000	47.8597	0.5847	0.248136	0.243730	
•	14	100.0000	48.194A	0.6354	1.118600	7.27925	
:		100,0000	10,4552	0,5330	-0.08#746	0.249054	
	1.0						
	15	100.0000	49.0437	0.8475	A.271186	0.123*30	
	15	100.0000	69.0437 50.4751	0.6017	1,091525	0.123#30	
	18 15 14 17	100.0000	69.0437 50.4751 12.6425	0.6017	0.091525	0.123#3n 0.239435 0.249#72	
	15 15 16 17	100.0000	49.0437 50.4751 12.4125 52.4878	0.6017 0.5258 0.6869	0,091525 0,004780 0,220339	0.123#30 0.219435 0.249#72 0.22#174	
	18 15 14 17	100,0000 100,0000 100,0000	69,0437 50,0751 12,6425 52,6878 11,3017	0.6017 0.5258 0.6869 0.4831	0.891525 0.804780 0.220339 0.050887	0.123#3# 0.219435 0.249#72 0.22#174 0.242991	
	18 15 14 17 18	100,0000	69,0437 50,4751 42,6425 52,6478 33,347 15,1086	0.6017 0.5258 0.6869	0,091525 0,004780 0,220339	0.173=30 0.279435 0.249472 0.228374 0.272993 0.130177 0.221208	
1 1 1	18 15 17 17 18 19 20 21 22	100,0000	60,0437 50,4751 12,6425 52,6478 11,3037 15,1086 27,6068 10,8050	0.6017 0.5254 0.6864 0.4831 0.1841 0.3500	0,091525 0,004780 0,220339 0,050807 0,186001 0,271186 0,220339	0.173=3n 0.279435 n.269477 n.224474 0.282993 n.130177 0.221208 0.249472	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18 15 17 18 19 20 21 22	100,0000 100,0000 100,0000 100,0000 100,0000 100,0000 100,0000	69,0431 90,4751 92,6478 11,3937 15,1086 27,6068 14,8050 64,1267	0.6017 0.5254 0.6864 0.4831 0.1841 0.3190 0.5000 0.7797	0,091525 0,004780 0,220370 0,050807 0,184001 0,271184 0,220370 0,149001	0,17343n 0,279435 0,249477 0,224474 0,242941 0,130177 0,221208 0,249477 0,1454764	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18 15 14 17 18 19 20 21 22 23 24	100,0000 100,0000 100,0000 100,0000 100,0000 100,0000 100,0000	60,0437 50,4751 72,6478 52,6878 13,3037 13,1086 27,6068 40,8050 64,1267	0.6017 0.5254 0.6864 0.4831 0.1841 0.3500 0.5000 0.7797 0.6017	0,041775 0,06780 0,270330 0,050807 0,186001 0,271186 0,270330 0,169001 0,250237	0,17344n 0,27945c 0,279477 0,228774 0,271204 0,1140177 0,221208 0,144077 0,144077	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18 15 16 17 18 19 20 21 22 23 24 25	100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000	69,0637 50,0751 72,4478 52,4478 15,3037 15,1084 27,6048 19,8050 64,1267 04,0268 72,2480	0.6017 0.5254 0.6864 0.4831 0.1841 0.3390 0.5000 0.7797 0.6017	n, aq 1575 n, no 6780 n, 22 n 330 n, no 6887 n, 1860 al n, 27 1186 n, 22 n 330 n, 1690 al n, 2592 al n, 1592 al	0.123810 0.219435 0.209472 0.228474 0.242943 0.140177 0.221708 0.289472 0.159454 0.287783 0.247783	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18 15 14 17 18 19 20 21 22 23 24	100,0000 100,0000 100,0000 100,0000 100,0000 100,0000 100,0000	60,0437 50,4751 72,6478 52,6878 13,3037 13,1086 27,6068 40,8050 64,1267	0.6017 0.5254 0.6864 0.4831 0.1841 0.3500 0.5000 0.7797 0.6017	0,041775 0,06780 0,270330 0,050807 0,186001 0,271186 0,270330 0,169001 0,250237	0,17344n 0,27945c 0,279477 0,228774 0,271204 0,1140177 0,221208 0,144077 0,144077	

454	100,000	73.6190	1.4407			
130	100,000	17.7195	9.5169	1.101695	1.202041	
131 -	100,000	20.3575		0.118644	7.24R#4#	
132	100.0000		0.2203	0.037804	0.189145	
133	100.0000	34.0633	0.3001	0.023720	1.210424	
150		73,576A	0.3729	7, 201100	1.201394	
	100.0000	14.1086	0.1356	0.037804	1,105329	
135	100.0000	15.0045	1.1695	1,135604	0.108214	
134	100.0000	13.4862	0.1610	0.118694	0.139301	
137	100.0000	10.30RG	0.4068	1. T77KP1	0.42954.0	
138	100.0000	17.4545	0.4015	0.070576		
130	100.0000	24,9255	0.2797	0.322034	0.24905#	
140	100.0000	16.9231	0.2373		0.207412	
141	100,0000	12.9638	0.4153	1.155504	0.142150	
142	100.0000	33.4072		V. 455044	0.237716	
143	100.0000	30.5/75	0.5814	0.322030	0.240534	
144	100,1000		n. BAGR	0.446674	0.240544	
145	100.0000	24.4077	0.3051	0.372881	0.211257	
144		25.A050	0.4237	0.404740	0.200536	
47	100.0000	12.2717	0,1610	0.118684	0.127020	
	100,0000	20.34gA	0.3220	0.169401	0.184640	
148	100.0000	21.4371	0.2712	0.271196	0.180145	
100	100.0000	25.8145	0.3305	0.250237	0.213018	
150	100.0000	11.6053	0.1860	1.201300		
	**********			.,,,,,,,,,,	0.11400%	

DERIVED SCORE TARLE

8.10	MARKS	ZACORE	THISCORE	AGCT-SCOPE	CEF8-SCORE
1	111.	2,13	71,31	142.62	713,12
5	110.	7.06	74.65	141.29	704,47
3	110.	2.06	70.65	141.29	706,47
4	106.	1.40	67.99	135.98	679.88
5	104.	1.40	67,99	135.08	679,RA
6	104.	1.80	67.99	135.98	679.AA
é	104.	73	67.32	134.65	679.88 473.24
ě	104.	. 47	66.66	131.12	46A. 59
10	104.	1.47	64.46	131,12	A6A.59
11	104.	1.47	64.46	137,72	464.59
15	103.	1.40	65,00	131.00	459.94
13	103.	1.40	65.99	131,00	459.04
14	101.	1.40	65,99	131.99	659.94
15	102.	1.53	65.33	130.46	653,30
16	107.	1.43	64.33	130.46	453.30
17	101.	4.47	64.66	129.33	646.65
18	100.	1.00	64.00	128.00	AAN. 10
19 20	100.		64.00	128.00	640,00 680,00
51	100.	1.40	64,00	124.00	440,40
55	90	13	67,34	124.67	633,36
53	90.	1,13	63.34	124.47	437,76
24	99	1,13	63.34	126.67	637,36
25	99.	1.33	63.34	126,67	637,76
26	99,	1.33	63.34	124.67	A33,36
27	99,	1.33	63,34	126.47	637.76
58	99,	1,33	63,34	124.67	433,36
29	94.	27	62,67	125.34	626.71
30	94.	1.27	62.67	125.34	626.71
31	94.	1.27	62.47	124.34	A26.71 A21.06
33	94.	1,13	62.01	124.01 122.68	611.42
34	96.	1.13	61.34	84,551	613.42
35	94.	1.13	61,34	127.68	417.42
36	94.	1.13	61.34	127.64	417,42
37	94,	1.13	61.34	122.68	413,42
38	96.	1.13	61.34	127.44	413,42
39	94,	1.07	60.68	121.15	404,77
40	95.	.07	60.68	121.35	606.77
41	95,	1.07	60.68	121.35	606.77
42	95.	1.07	60.68	121.35	406,77
44	94.	1.00	67.01	120.02	400,12 400,12
45	94.	1.00	60.01	120.02	404,12
7	94.	1.00	60.01	120.02	600.12
47	44.	1.00	60.01	120.02	600.12
48	94.	1.00	60.01	120.02	600.12
49	94.	20	67.01	120.02	400.12
50	92.	0.87	58.68	117.37	58A.A3
51	97.	0.87	50.48	117.37	566,A3
52	92,	^. 47	58.68	117.37	584.43
53	91,	^.40	54.02	116.04	380.14
0 84	9.1.	0.80	58.02	116.04	5 <u>80</u> _1A

.

₹4	90.	0.74	57.35	114.71	573,53
46	90.	A . 74	57.15	114.71	573.53
47	•••	1.74 1.70	57, 15	114.71	571.53
58	40.	^.47	54.69	113,36	566.49
49 60	40	2.67	54.49	113.38	564.40
41		1.47	54.49 54.49	113,38	566.89 566.89
62	A.R.	0.40	54.42	113.38	560.24
43	AR.	2.40	54.12	12.05	560.74
44	A R		54.02	112.45	560.24
45		2.40	54.42	112.05	560.24
46	RR RB	0.40	54.02 54.02	112.05	560.24
68	*7	7.50	55.36	110.72	560.24 552.59
49	87	0.40 0.54	55.36	110.72	451.40
70	87.	A < 4	55.36	111.72	551.59
71	87		54, 36	110.72	451.50
72	A7.	1.50	54.46		553,59
73 74	87	1.54	55.16	110.72	451.40 551.59
75	87	0.50	54.16	110.72	451.44
76		^.47	54.69	100.10	444.05
77		0.47 0.47 0.47	54 40	100.30	544.95
78		^.17	50.49	100.30	544.95
79	RA. RA.	2.07	54.69	109.39	544.95
81		0.00	54.49	100.10	544.05 544.30
4.2		2.00	54.02	108.06	540.30
A 3		0.00	50.03	108.06	540.30
A 4		0.40	54.43	108.06	500.30
46		0 # # # # # # # # # # # # # # # # # # #	50.03	108.06	540.30
Ā.,		2.70	51.17	104.73	540.10 531.65
8.6	44.	^ 39	51,17	104.73	533.65
AQ		7.14	51.17	104 73	511.45
•0	4.3	1.27	52.70	105.40	527-01
91	. FA	^.27 ^ 27	52.71	105.00	527.01
95	::-	1.27 1.27 1.27	52.70 52.70	105.00	527.01 527.01
94		4 27	52.70	05.00	527.01
05		0.20 0.20		101.07	520.34
•		٥٠.٥	52. ^4	104.07	520.36
97	A7.	0.20	52.00	.00.07	470.36
9.0	A).	2.20	52.44 51.37	102.74	524.36 513,71
100		1.14	51 37	102.74	513.71
121	An.	1.14		107.70	513.71
103	An.	0.07		101.41	
103	70.	2.27	50.71	100.08	507.07
105	70.		50.04	100.08	500.42
1^6	7°.	-1.06	40 18	9= 75	491,77
107	7.0		49.30		c91.77
1 0 8	7#. 7#. 1#. 17.	0.20 0.20 0.10 0.14 0.77 0.07 0.00 0.00 0.00 0.00 0.00 0.0	49.38	98.75	491.77
109	7.	-1.15	49.3A	97.75	093.71
111	77.	-0.13	a 71	97.03	487.11 487.15
112	17	- 1 1	09.71	07 47	AA7 . 1 .
111		3	a#.71	97 42	487.14
110		-0 17	48 71		087 16
115	77.	-^:1	48.71	97.03	087.12 087.13
1'6		-0 11	48.71	97.03	087.13
118	77.		48.71	97.43	487.13
[' 4		-1 20	//R 05	96.10	280.42
120	76.	-0.30			
171	74.	-n.>n -n.>n	48.05	94.10	
122	74.	>0	48.05	94 10	080 08
174	76.			94.10	44.44
125	75.	-0.26	47.34	94.77	272.AL
126	75.	-4.25	47.38	94 77	073.83

127	75.	-^.24	47.38	90.77	473.83
128	75.	-4.74		94.77	473.83
129	75.	-0.20		94.77	373,RC
130	75.	40.26	47.34	98 77	A78.83
131	15.	-1,26	47.18	90.77	773.4¢
135	75.	-0.26	47.38	94.77	478.83
133	71.	-1.11	46.77	91.10	167.19
134	77.	-11	44.72	07 68	867.19
135	70.		46.72	03 40	167.19
136	74.	-0.14	44.72	91.04	767 10
137	7^.	-0.31	46.72		467.19
138		-0.34	44.72	93.94	
190	77.	-n to	44.05		160 SU
140	72.	-0.06	45.19	90.78	453.49
101	7>.	-0.76	45.30	0^ 7A	142.40
145	72.	-0.00	45.10	91 7A	153 AQ
103	73	-0.00	45 20		# 1 A D
144	72.	-0.46	45.10	90.74	152.04
145	72. 77. 71. 71. 71.	-0.63	41.72	40.05	027.25
146	71	- ^ 53	41.72	49.05	947.75
107	7,	-0 63	40.72	80.45	nu7.25
148	7.	-0.51	14.77	80.05	047.25
109	7.	-0.66	80.72	80.05	047.25
150	71:	-0.53	00.72	20 08	
151	70.		00.72		440.40
150	70.		40.00	88.49	440.40
153	70.	-0.50	44.00	88.12	
154	, .		40.00		000.40
155		-0.50	44.00		244.40
156	70. 70. 70. 70. 70.		44.00	*****	#40.40 #40.40 #40.40 #40.40 #40.40
157			44.00		131.04
158			41,40	***	
1=0			43.00	AA.70	453.05
140		-2.50	41.00	44.74	732.05
100	•••		43.40	AA.70	432.05
141	•	-2.4		RR	427 . 11 027 . 11
142	b	****	62.73 82.73	85.04	027.31
143		-7.75	82.73	85.06	027.31
144	٠	-0.75	42.73	A5.04	427.11
145	۸.	• ^ . 7 3	47.71	45.06	127.31
146	6.	-^.74	42.71	A5.74	027.11
147	67.	-^.79	42.07	A1.13 A4.15	44.454
168	57.	-7.79	42.07	A4.11	450.40
169	67.	•^.79	47.17	80.13	44.050
170	67,	-^.79	42.07	80,13	454.44
171	***	-0.06	41.00	82.80	414.41
172	66.	-0.76	41.40	A2.A0	310.01
173	**.	-^.	4.40	42.40	419.01
175	***	****	41.00	87.80	110,01
	66.	- 1. 1.	41.07	82.80	410.41
176	· ·	-^.*6	a an	A2.80	.10.01
177	70. 70. 70. 70. 70. 60. 60. 60. 60. 60. 60. 60. 60. 60. 6	-1.46	a2.07 a2.07 a2.07 a1.00 a1.00 a1.00 a1.00 a1.00 a1.00	RB, 'I' RB, 'I' RB, 'I' RP, RD, RP, RD, RP, RD, RD, RD, RD, RD, RD, RD, RD, RD, RD	427, 31 627, 31 627, 31 620, An 620, An 620
178	66.	-^. *^	**.**	42.40	010.01
179	• • •	•0.54	40.74	×1,07	407.17
180	***	03	40.74	×1.47	407.47
181	٠.٠		47.74	A 7	407.47
1 4 2	65.	-^.03	44.74	81.07	107.37
183		-^.03	40.74	81 A7	207.37
184	÷".	-^.00	40.07	80,14	400.72
185		-^.00	47.77	80 1 g 80 1 g 80 1 g	000.72
186	50.		40.07	80.10	200.75
187	40.	-^.00	40.07 40.07 40.07	HO,14 HO,14 HO,14 HO,14 7A,R1 7A,R1 7A,R1	007.37 000.72 000.72 000.72
188	63.	-1.00	30.01	74,81	
149	63.	-1.^5	30.01	78.81	194.07
100	63.	-1.16	30.01	78.R1	194.47
101	67.		34.74	77.99	3A7.13
195	41.	-1.19	39.08		340.79
103	61.	-1.19	38,^8	76 16	TAP.7A
194	61.	-1.10	RA AR	74.14	184.7×
195			37.61		370.14
196	50.	-1.26	17.71		374,12
107	<u>.</u>	-1.24	37. ^1	70 RT	274.11
489	h^.	-1.25	37.41	74.83	371.13

460	59.	-1,74	34.75	73.50	147.49
200	50	-1.35	34.75	71.50	367.09
201	50	-1.21	34.75	73.50	367.40
505	50.	4 10	34.08	72,17	360.81
203	5*.	-1.10	34.48	12.17	140.44
204	57.	-1.04	35.42	70.44	150.10
205	54.	-1.52	\$4.75	40.51	147.54
506	54.	•1.52	10.75	60.51	347.55
207	55.	-1.50	30.00	6º.18	\$40.20
508	55.	-1.59	14.00	4P. 1R	\$40.20
548	50,	-1.46	43.04	44.85	150.24
210	51.	-1.6~	23.02	A4.85	331.25
211	41.	-1.72	32.76	45.52	327.61
5.5	41.	-1,72	47.76	44.51	127.41
213	53.	-1.72	42.76	45.52	127.41
214	41.	-1.72	12.74	44.52	327.41
215	51.	-1.06	11.03	49.96	210.81
216	51.	-1.86	37.04	47.94	317.31
217	51.	-1.86	11.01	42.24	214.21
514	51.	-1.86	\$1.05	42.94	214.21
519	50,	-1.07	30.77	H1.54	307.67
550	44.	-2.19	20.11	54.27	241.48
271	44.	-2.19	28.11	54.72	241.04